April 21, 2022

| Registered      |                    | Product  | Thickness<br>in. | Ten         | Tensile Strength,<br>ksi                               |                      |                      | Remarks <sup>2</sup> |  |
|-----------------|--------------------|--|------------------|-------------|--|----------------------|----------------------|----------------------|--|
| Alloy<br>Temper | Ву                 | Date   | _                |             | Basis <sup>1</sup>                                     | Ult.                 | Yield                | 2 in. or 4D          |  |
| 2043-T85        | Universal<br>Alloy | 02/07/2019   | Extrusion        | 0.040-0.249 | *Min <sup>6</sup>                                      | 76.0                 | 70.0                 | 6                    | *Tentative   |
|                 | ,                  |  |                  | 0.250-0.499 | *Min <sup>6</sup>                                      | 78.0                 | 73.0                 | 7                    | Cross-sectional area less than or equal to 23 in 2 and circle size less than or equal to                           |
|                 |                    |  |                  | 0.500-0.999 | *Min <sup>6</sup>                                      | 80.0                 | 75.0                 | 7                    | 16 in.   |
|                 |                    |  |                  | 1.000-2.500 | *Min <sup>6</sup>                                      | 82.0                 | 78.0                 | 7                    | Solution heat treated and cold worked in the range 3-6% and artificially aged.                                     |
|                 |                    |  |                  |             |  |                      |                      |                      | Stress Corrosion Resistance For ST specimens taken from section thicknesses 0.75 in and greater, See footnote 4b.  |
|                 |                    |  |                  |             |  |                      |                      |                      | Exfoliation Corrosion Resistance See footnote 15b. Note: ASTM G85 Annex A2 Dry-Bottom MASTMAASIS Method for weeks. |
| 2050-T34        | Constellium        | 01/25/2016<br>Revised<br>08/04/2017<br>Revised<br>02/01/2019 | Plate            | 0.500-6.500 | Min <sup>9</sup>                                       | 50.0                 | 34.0                 | 17                   | Solution heat treated and cold worked 3-4.5%.  |
| 2081-T84        | Kaiser             | 11/16/2018   | Plate            | 1.000-2.000 | *Min <sup>6</sup><br>*Min <sup>9</sup>                 | 76.0<br>76.0         | 73.0<br>70.0         | 8<br>7               | *Tentative   |
|                 |                    |  |                  | 2.001-3.000 | *Min <sup>6</sup> *Min <sup>9</sup> *Min <sup>10</sup> | 74.0<br>75.0<br>72.0 | 71.0<br>68.0<br>62.0 | 6<br>6<br>2          | Solution heat treated and cold worked 2-5%.  |

- 4.b. Material shall be capable of passing the stress corrosion cracking test described in ASTM G47 when stressed to: b. 35 ksi.
- 4.e. Material shall be capable of passing the stress corrosion cracking test described in ASTM G47 when stressed to: e. 45 ksi.
- 15. b. Material shall be capable of demonstrating exfoliation corrosion resistance. Exfoliation corrosion resistance shall be determined in accordance with ASTM G34 and material shall not exhibit exfoliation corrosion greater than that illustrated by Photo EB, Figure 2. The applicable sample plane for testing is indicated by one of the following locations: b. At the T/10 plane.

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| Alloy<br>Temper | Ву          | Date       |       |             | Basis <sup>1</sup>                    |              |              |             |   |
|-----------------|-------------|------------|-------|-------------|---------------------------------------|--------------|--------------|-------------|---|
| 297-T87         |             |            |       |             |                                       | Ult.         | Yield        | 2 in. or 4D |   |
| 297-T87         |             |            |       | 3.001-4.000 | *Min⁵                                 | 73.0         | 70.0         | 6           |   |
| 297-T87         |             |            |       |             | *Min <sup>9</sup>                     | 74.0         | 67.0         | 4           |   |
| 297-T87         |             |            |       |             | *Min¹0                                | 71.0         | 62.0         | 2           |   |
|                 | McCook      | 06/21/2000 | Plate | 1.500-2.000 | Min <sup>6</sup>                      | 64.0         | 58.0         | 10          | Stress Corrosion Resistance   |
|                 | Metals      | Revised    |       |             | Min <sup>9</sup>                      | 66.0         | 60.0         | 8           | 30 days at 45 ksi when tested in the ST   |
|                 |             | 06/03/2004 |       |             | Min <sup>10</sup>                     | 65.0         | 57.0         | 2           | direction per ASTM G47 in the thickness   |
| Constelliur     | Constellium | Revised    |       |             |                                       |              |              |             | range of 3.001-5.100 inches. Product  |
|                 |             | 01/12/2022 |       | 2.001-2.500 | Min <sup>6</sup>                      | 63.0         | 57.0         | 9           | outside this thickness rage will continue to exhibit capability of 30 days at 30 ksi. |
|                 |             |            |       |             | Min <sup>9</sup>                      | 64.0         | 58.0         | 7           | exhibit capability of 30 days at 30 ksi.  |
|                 |             |            |       |             | Min <sup>10</sup>                     | 64.0         | 56.0         | 2           | Exfoliation Corrosion Resistance  |
|                 |             |            |       |             |                                       |              |              |             | See footnote 15.b.  |
|                 |             |            |       | 2.501-3.000 | Min <sup>6</sup>                      | 62.0         | 57.0         | 9           |   |
|                 |             |            |       |             | Min <sup>9</sup>                      | 64.0         | 58.0         | 7           | Fracture Toughness 14 – Min K <sub>Ic</sub>   |
|                 |             |            |       |             | Min <sup>10</sup>                     | 62.0         | 55.0         | 2           | For thicknesses 1.500-3.000 inches  |
|                 |             |            |       |             |                                       |              |              |             | L-T direction 32 ksi Vin.   |
|                 |             |            |       | 3.001-4.000 | Min <sup>6</sup>                      | 62.0         | 57.0         | 5           | T-L direction 27 ksi Vin.<br>S-L direction 20 ksi Vin.                                |
|                 |             |            |       |             | Min <sup>9</sup>                      | 62.0         | 57.0         | 4           | 3-L UII ECLIOTI ZU KSI VIII.  |
|                 |             |            |       |             | Min <sup>10</sup>                     | 59.0         | 54.0         | 1.5         | For thicknesses 3.001-4.000 inches  |
|                 |             |            |       |             |                                       |              |              |             | L-T direction 31 ksi Vin.   |
|                 |             |            |       | 4.001-5.000 | Min <sup>6</sup>                      | 61.0         | 56.0         | 5           | T-L direction 27 ksi √in.   |
|                 |             |            |       |             | Min <sup>9</sup>                      | 61.0         | 56.0         | 4           | S-L direction 20 ksi Vin.   |
|                 |             |            |       |             | Min <sup>10</sup>                     | 58.0         | 52.0         | 1.5         |   |
|                 |             |            |       |             |                                       |              |              |             | For thicknesses 4.001-5.000 inches  |
|                 |             |            |       | 5.001-6.000 | Min <sup>6</sup>                      | 60.0         | 55.0         | 5           | L-T direction 30 ksi Vin.   |
|                 |             |            |       |             | Min <sup>9</sup><br>Min <sup>10</sup> | 60.0<br>57.0 | 55.0<br>52.0 | 4<br>1.5    | T-L direction 26 ksi Vin.<br>S-L direction 18 ksi Vin.                                |

- 4.b. Material shall be capable of passing the stress corrosion cracking test described in ASTM G47 when stressed to: b. 35 ksi.
- 4.e. Material shall be capable of passing the stress corrosion cracking test described in ASTM G47 when stressed to: e. 45 ksi.
- 15. b. Material shall be capable of demonstrating exfoliation corrosion resistance. Exfoliation corrosion resistance shall be determined in accordance with ASTM G34 and material shall not exhibit exfoliation corrosion greater than that illustrated by Photo EB, Figure 2. The applicable sample plane for testing is indicated by one of the following locations: b. At the T/10 plane.

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| Registered      |                             | Product  | Thickness in.                     | Ten                           | Tensile Strength,<br>ksi                                  |                      |                      | Remarks <sup>2</sup> |  |
|-----------------|-----------------------------|--|-----------------------------------|-------------------------------|---|----------------------|----------------------|----------------------|--|
| Alloy<br>Temper | Ву                          | Date   |                                   |                               | Basis <sup>1</sup>  | Ult.                 | Yield                | 2 in. or 4D          |  |
|                 |                             |  |                                   |                               |   |                      |                      |                      | For thicknesses 5.001-6.000 inches<br>L-T direction 29 ksi vin.<br>T-L direction 25 ksi vin.<br>S-L direction 18 ksi vin.                                      |
| 2397-T87        | Alcoa<br>Revised<br>Arconic | 02/12/2003<br>Revised<br>08/17/2005<br>Revised<br>08/02/2018 | Plate                             | 3.001-4.000                   | Min <sup>6</sup><br>Min <sup>9</sup><br>Min <sup>10</sup> | 62.0<br>62.0<br>60.0 | 57.0<br>57.0<br>54.0 | 5<br>4<br>1.5        | Stress Corrosion Resistance See footnote 4.b.  Exfoliation Corrosion Resistance See footnote 15.b.   |
|                 |                             |  |                                   |                               |   |                      |                      |                      | Fracture Toughness <sup>14</sup> – Min K <sub>Ic</sub> For thickness 3.001-4.000 L-T direction 31 ksi Vin. T-L direction 27 ksi Vin. S-L direction 20 ksi Vin. |
| 6061-T651       | Constellium                 | 09/09/2019   | Plate                             | 6.001-8.000                   | Min <sup>9</sup>  | 42.0                 | 36.0                 | 9                    | *Tentative   |
|                 |                             |  |                                   | 8.001-10.000<br>10.001-12.000 | Min <sup>9</sup>  | 41.0<br>40.0         | 34.0<br>32.0         | 8                    |  |
| 7048-T6511      | Kaiser                      | 04/08/2020   | Extrusion                         | 0.040 - 0.125                 | Min <sup>6</sup>  | 67.0                 | 63.0                 | 10                   |  |
| 7055-T76511     | Alcoa                       | 01/15/2001<br>Revised<br>06/20/2007                          | Extruded<br>Rod, Bar &<br>Profile | Up thru 0.249 0.250 – 0.499   | Min <sup>6</sup>  | 89.0<br>90.0         | 85.0<br>85.0         | 7 9                  | Exfoliation Corrosion Resistance See footnote 15. b.   |
|                 | Revised<br>Arconic          | Revised<br>08/14/2020  |                                   | 0.500 – 3.000                 | Min <sup>6</sup>  | 91.0                 | 86.0                 | 9                    |  |

- 4.b. Material shall be capable of passing the stress corrosion cracking test described in ASTM G47 when stressed to: b. 35 ksi.
- 4.e. Material shall be capable of passing the stress corrosion cracking test described in ASTM G47 when stressed to: e. 45 ksi.
- 15. b. Material shall be capable of demonstrating exfoliation corrosion resistance. Exfoliation corrosion resistance shall be determined in accordance with ASTM G34 and material shall not exhibit exfoliation corrosion greater than that illustrated by Photo EB, Figure 2. The applicable sample plane for testing is indicated by one of the following locations: b. At the T/10 plane.

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| Registered      |                      | Product    | Thickness in. | Ten         | Tensile Strength,<br>ksi              |              |              | Remarks <sup>2</sup>  |   |
|-----------------|----------------------|------------|---------------|-------------|---------------------------------------|--------------|--------------|---|---|
| Alloy<br>Temper | Ву                   | Date       |               |             | Basis <sup>1</sup>                    | Ult.         | Yield        | 2 in. or 4D   |   |
|                 |                      |            |               |             |                                       |              |              | For thickness up thru 0.499 Inch<br>Cross Sectional Area 12 in. <sup>2</sup> and Circle<br>Size 10 in. max. |   |
|                 |                      |            |               |             |                                       |              |              |   | For thickness 0.500 – 3.000 Inch<br>Cross Sectional Area 26.3 in. <sup>2</sup> and Circle<br>Size 15.3 in. max. |
|                 |                      |            |               |             |                                       |              |              |   | Longitudinal Compressive Yield<br>Strength: 87.0 ksi  |
| 160-T7351       | 60-T7351 Constellium | 11/08/2018 | Plate         | 1.000-1.500 | Min <sup>6</sup>                      | 74.0         | 67.0         | 13  | Stress Corrosion Resistance   |
|                 |                      | Revised    |               |             | Min <sup>9</sup>                      | 74.0         | 65.0         | 11  | See footnote 4e.  |
|                 |                      | 02/06/2020 |               | 1.501-2.000 | Min <sup>6</sup>                      | 73.0         | 67.0         | 13  | Fracture Toughness <sup>14</sup> – Min K <sub>IC</sub> or K <sub>Q</sub>  |
|                 |                      |            |               | 1.501 2.000 | Min <sup>9</sup>                      | 73.0         | 65.0         | 11  | For thicknesses 1.000-2.000 inches L-T direction 40 ksiVin  |
|                 |                      |            |               | 2.001-3.000 | Min <sup>6</sup>                      | 72.0         | 65.0         | 12  | T-L direction 34 ksiVin   |
|                 |                      |            |               |             | Min <sup>9</sup>                      | 73.0         | 64.0         | 10  |   |
|                 |                      |            |               |             | Min <sup>10</sup>                     | 70.0         | 59.0         | 6   | For thicknesses 2.001-3.000 inches<br>L-T direction 45 ksiVin   |
|                 |                      |            |               | 3.001-4.000 | Min <sup>6</sup>                      | 71.0         | 64.0         | 12  | T-L direction 33 ksiVin   |
|                 |                      |            |               |             | Min <sup>9</sup><br>Min <sup>10</sup> | 72.0<br>70.0 | 63.0<br>58.0 | 9<br>5  | S-L direction 35 ksiVin   |
|                 |                      |            |               |             | IVIIII                                | 70.0         | 36.0         | 5   | For thicknesses 3.001-4.000 inches  |
|                 |                      |            |               | 4.001-5.000 | Min <sup>6</sup>                      | 70.0         | 64.0         | 11  | L-T direction 38 ksivin   |
|                 |                      |            |               |             | Min <sup>9</sup>                      | 72.0         | 62.0         | 8   | T-L direction 30 ksiVin   |
|                 |                      |            |               |             | Min <sup>10</sup>                     | 69.0         | 58.0         | 4   | S-L direction 34 ksivin   |
|                 |                      |            |               | 5.001-6.000 | Min <sup>6</sup>                      | 70.0         | 63.0         | 11  |   |
|                 |                      |            |               | 2.002 0.000 | Min <sup>9</sup>                      | 71.0         | 61.0         | 7   |   |

- 4.b. Material shall be capable of passing the stress corrosion cracking test described in ASTM G47 when stressed to: b. 35 ksi.
- 4.e. Material shall be capable of passing the stress corrosion cracking test described in ASTM G47 when stressed to: e. 45 ksi.
- 15. b. Material shall be capable of demonstrating exfoliation corrosion resistance. Exfoliation corrosion resistance shall be determined in accordance with ASTM G34 and material shall not exhibit exfoliation corrosion greater than that illustrated by Photo EB, Figure 2. The applicable sample plane for testing is indicated by one of the following locations: b. At the T/10 plane.

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| Registered      |             | Product Thickness in. |                   | Tensile Strength,<br>ksi             |  |  | Elongation<br>Percent in | Remarks <sup>2</sup>  |   |
|-----------------|-------------|-----------------------|-------------------|--------------------------------------|--|--|--------------------------|---|---|
| Alloy<br>Temper | Ву          | Date                  |                   |                                      | Basis <sup>1</sup>                                     | Ult.   | Yield                    | 2 in. or 4D   |   |
|                 |             |                       | Min <sup>10</sup> | 68.0 58.0                            | 3  | For thicknesses 4.001-5.000 inches L-T direction 36 ksiVin T-L direction 27 ksiVin S-L direction 31 ksiVin  For thicknesses 5.001-6.000 inches L-T direction 28 ksiVin T-L direction 25 ksiVin |                          |   |   |
|                 |             |                       |                   |                                      |  |  |                          |   | S-L direction 26 ksiVin   |
| 7160-T7451      | Constellium | 11/02/2018            | Plate             | 1.000-1.500                          | *Min <sup>6</sup><br>*Min <sup>9</sup>                 | 77.0<br>76.0   | 71.0<br>69.0             | 14<br>13  | *Tentative Stress Corrosion Resistance See footnote 4b.   |
|                 |             |                       |                   | 1.501-2.000                          | *Min <sup>6</sup> *Min <sup>9</sup>                    | 77.0<br>76.0   | 71.0<br>69.0             | 14<br>12  | Fracture Toughness <sup>14</sup> – Min K <sub>IC</sub> or K <sub>Q</sub>  |
|                 |             |                       |                   | 2.001-3.000                          | *Min <sup>10</sup> *Min <sup>6</sup> *Min <sup>9</sup> | 73.0<br>75.0<br>75.0   | 64.0<br>69.0<br>68.0     | 6<br>13<br>11   | For thicknesses 1.000-1.500 inches<br>L-T direction 34 ksiVin<br>T-L direction 29 ksiVin                            |
|                 |             |                       |                   | 3.001-4.000                          | *Min <sup>10</sup> *Min <sup>6</sup>                   | 73.0<br>73.0   | 64.0<br>68.0             | 6<br>13   | For thicknesses 1.501-2.000 inches<br>L-T direction 34 ksiVin   |
|                 |             |                       | 11332 11336       | *Min <sup>9</sup> *Min <sup>10</sup> | 75.0<br>72.0   | 67.0<br>62.0   | 10<br>4                  | T-L direction 29 ksiVin  For thicknesses 2.001-3.000 inches |   |
|                 |             |                       |                   | 4.001-5.000                          | *Min <sup>6</sup> *Min <sup>9</sup> *Min <sup>10</sup> | 72.0<br>74.0<br>70.0   | 67.0<br>66.0<br>61.0     | 11<br>9<br>3  | L-T direction 32 ksiVin<br>T-L direction 27 ksiVin<br>S-L direction 28 ksiVin                                       |
|                 |             |                       |                   | 5.001-6.000                          | *Min <sup>6</sup> *Min <sup>9</sup> *Min <sup>10</sup> | 72.0<br>73.0<br>69.0   | 66.0<br>65.0<br>61.0     | 10<br>6<br>2  | For thicknesses 3.001-4.000 inches<br>L-T direction 30 ksiVin<br>T-L direction 25 ksiVin<br>S-L direction 27 ksiVin |

- 4.b. Material shall be capable of passing the stress corrosion cracking test described in ASTM G47 when stressed to: b. 35 ksi.
- 4.e. Material shall be capable of passing the stress corrosion cracking test described in ASTM G47 when stressed to: e. 45 ksi.
- 15. b. Material shall be capable of demonstrating exfoliation corrosion resistance. Exfoliation corrosion resistance shall be determined in accordance with ASTM G34 and material shall not exhibit exfoliation corrosion greater than that illustrated by Photo EB, Figure 2. The applicable sample plane for testing is indicated by one of the following locations: b. At the T/10 plane.

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|                 |                             | New and R                           | evised Regio  | strations Sinc             | e Publica   | tion of 2            | 018 Edit             | ion of Yellow        | Sheets   |
|-----------------|-----------------------------|-------------------------------------|---------------|----------------------------|---|----------------------|----------------------|----------------------|--|
| Registered      |                             | Product                             | Thickness in. | _                          | Tensile Strength,<br>ksi                                  |                      |                      | Remarks <sup>2</sup> |  |
| Alloy<br>Temper | Ву                          | Date                                |               |                            | Basis <sup>1</sup>  | Ult.                 | Yield                | 2 in. or 4D          |  |
| -               |                             |                                     |               |                            |   |                      |                      |                      | For thicknesses 4.001-5.000 inches<br>L-T direction 28 ksiVin<br>T-L direction 24 ksiVin<br>S-L direction 26 ksiVin                          |
|                 |                             |                                     |               |                            |   |                      |                      |                      | For thicknesses 5.001-6.000 inches<br>L-T direction 26 ksiVin<br>T-L direction 22 ksiVin<br>S-L direction 25 ksiVin                          |
| 7160-T7651      | Constellium                 | 12/05/2017<br>Revised               | Plate         | 1.000-1.500                | Min <sup>6</sup><br>Min <sup>9</sup>                      | 79.0<br>78.0         | 74.0<br>72.0         | 13<br>13             | Stress Corrosion Resistance See footnote 4a.   |
|                 |                             | 12/19/2018                          |               | 1.501-2.000                | Min <sup>6</sup><br>Min <sup>9</sup><br>Min <sup>10</sup> | 78.0<br>78.0<br>75.0 | 74.0<br>72.0<br>66.0 | 12<br>12<br>6        | Fracture Toughness <sup>14</sup> – Min Kıc or Ko<br>For thicknesses 1.000-2.000 inches<br>L-T direction 34 ksivin<br>T-L direction 29 ksivin |
|                 |                             |                                     |               | 2.001-3.000                | Min <sup>6</sup><br>Min <sup>9</sup><br>Min <sup>10</sup> | 76.0<br>77.0<br>74.0 | 72.0<br>71.0<br>65.0 | 12<br>11<br>5        | For thicknesses 2.001-3.000 inches<br>L-T direction 32 ksiVin  |
|                 |                             |                                     |               | 3.001-4.000                | Min <sup>6</sup><br>Min <sup>9</sup><br>Min <sup>10</sup> | 75.0<br>77.0<br>73.0 | 72.0<br>70.0<br>64.0 | 12<br>10<br>4        | T-L direction 27 ksiVin<br>S-L direction 29 ksiVin   |
|                 |                             |                                     |               | 4.001-5.000                | Min <sup>10</sup> Min <sup>1</sup> Min <sup>10</sup>      | 74.0<br>76.0<br>73.0 | 71.0<br>69.0<br>64.0 | 11<br>9<br>4         | For thicknesses 3.001-4.000 inches<br>L-T direction 29 ksiVin<br>T-L direction 26 ksiVin<br>S-L direction 28 ksiVin                          |
| 7085-T711       | Alcoa<br>Revised<br>Arconic | 10/25/2011<br>Revised<br>08/02/2018 | Plate         | 0.500-1.500<br>1.501-2.000 | Min <sup>9</sup>  | 80.0<br>78.0         | 74.0<br>73.0         | 11<br>11             | Solution heat treated, stretched 1.5 to 3%, and overaged for ballistic performance.  |

- 4.b. Material shall be capable of passing the stress corrosion cracking test described in ASTM G47 when stressed to: b. 35 ksi.
- 4.e. Material shall be capable of passing the stress corrosion cracking test described in ASTM G47 when stressed to: e. 45 ksi.
- 15. b. Material shall be capable of demonstrating exfoliation corrosion resistance. Exfoliation corrosion resistance shall be determined in accordance with ASTM G34 and material shall not exhibit exfoliation corrosion greater than that illustrated by Photo EB, Figure 2. The applicable sample plane for testing is indicated by one of the following locations: b. At the T/10 plane.

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|                 |                   |                       |                 |             | Ten                | sile Streng | th,   |                      |  |
|-----------------|-------------------|-----------------------|-----------------|-------------|--------------------|-------------|-------|----------------------|--|
| Registered      |                   | Product               | Thickness in.   |             | ksi                |             |       | Remarks <sup>2</sup> |  |
| Alloy<br>Temper | Ву                | Date                  |                 |             | Basis <sup>1</sup> | Ult.        | Yield | 2 in. or 4D          |  |
|                 |                   |                       |                 | 2.001-3.000 | Min <sup>9</sup>   | 77.0        | 72.0  | 10                   | 0.500-3.000 in. plate meets armor plate requirements of MIL-DTL-32375 (MR) Class   |
|                 |                   |                       |                 | 3.001-4.000 | Min <sup>9</sup>   | 76.0        | 70.0  | 7                    | I Type A. <u>Exfoliation Corrosion Resistance</u> See footnote 15.b.   |
| 7085-T721       | Alcoa<br>Revised  | 10/27/2011<br>Revised | Plate           | 0.500-1.500 | Min <sup>9</sup>   | 68.0        | 60.0  | 12                   | Solution heat treated, stretched 1.5 to 3%, and overaged for ballistic performance.  |
|                 | Arconic           | 08/02/2018            |                 | 1.501-2.000 | Min <sup>9</sup>   | 67.0        | 59.0  | 12                   | 0.500-3.000 in. plate meets armor plate requirements of MIL-DTL-32375 (MR) Class   |
|                 |                   |                       |                 | 2.001-3.000 | Min <sup>9</sup>   | 67.0        | 58.0  | 11                   | I Type B.  |
|                 |                   |                       |                 | 3.001-4.000 | Min <sup>9</sup>   | 66.0        | 57.0  | 10                   | Exfoliation Corrosion Resistance See footnote 15.b.  |
| 7099-T731       | Kaiser            | 03/13/2020            | Plate           | 2.000-3.000 | *Min <sup>9</sup>  | 68.0        | 58.0  | 12                   | *Tentative   |
|                 |                   |                       |                 |             |                    |             |       |                      | Solution heat treated, stretched 1.5 to 3%, and artificially aged to meet armor plate requirements.  Developed to meet armor plate requirements of MIL-DTL-32375 (Revision B Amendment 2). |
|                 |                   |                       |                 |             |                    |             |       |                      | Exfoliation Corrosion Resistance See footnote 15.b.  |
| A206-T4         | Eck<br>Industries | 09/14/2020            | Sand<br>Casting | -           | Min                | 51.0        | 31.0  | 9                    | Properties are from separate standard cast coupons.  |
| A206-T7         | Eck<br>Industries | 09/14/2020            | Sand<br>Casting | -           | Min                | 50.0        | 35.0  | 2                    | Properties are from separate standard cast coupons.  |

- 4.b. Material shall be capable of passing the stress corrosion cracking test described in ASTM G47 when stressed to: b. 35 ksi.
- 4.e. Material shall be capable of passing the stress corrosion cracking test described in ASTM G47 when stressed to: e. 45 ksi.
- 15. b. Material shall be capable of demonstrating exfoliation corrosion resistance. Exfoliation corrosion resistance shall be determined in accordance with ASTM G34 and material shall not exhibit exfoliation corrosion greater than that illustrated by Photo EB, Figure 2. The applicable sample plane for testing is indicated by one of the following locations: b. At the T/10 plane.

### ADDENDUM TO 2018 EDITION OF YELLOW SHEETS

### **Tempers for Aluminum and Aluminum Alloy Products**

April 21, 2022

|                 |                   | New and Re            | evised Regis    | trations Since           | Publicat           | tion of 20 | 18 Editi                            | on of Yellow         | Sheets  |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|--------------------|------------|-------------------------------------|----------------------|---|
| Registered      |                   | Product Thickness in. |                 | Tensile Strength,<br>ksi |                    |            | Elongation Percent in - 2 in. or 4D | Remarks <sup>2</sup> |   |
| Alloy<br>Temper | Ву                | Date                  |                 |                          | Basis <sup>1</sup> | Ult.       | Yield                               | 2 III. 01 4D         |   |
| E357-T61        | Eck<br>Industries | 02/17/2017            | Sand<br>Casting | -                        | Min                | 40.0       | 34.0                                | 1                    | Values represent properties obtained from separately cast bars and are derived from ASTM B-26, Standard Specification for Aluminum-Alloy Sand Castings. |

- 4.b. Material shall be capable of passing the stress corrosion cracking test described in ASTM G47 when stressed to: b. 35 ksi.
- 4.e. Material shall be capable of passing the stress corrosion cracking test described in ASTM G47 when stressed to: e. 45 ksi.
- 15. b. Material shall be capable of demonstrating exfoliation corrosion resistance. Exfoliation corrosion resistance shall be determined in accordance with ASTM G34 and material shall not exhibit exfoliation corrosion greater than that illustrated by Photo EB, Figure 2. The applicable sample plane for testing is indicated by one of the following locations: b. At the T/10 plane.

April 21, 2022

|              |                   |             | April 21, 2022 |  |  |  |  |  |  |
|--------------|-------------------|-------------|----------------|--|--|--|--|--|--|
|              | Tentative Removed |             |                |  |  |  |  |  |  |
| Alloy Temper | Product           | Ву          | Revised Date   |  |  |  |  |  |  |
| 2397-T87     | Plate             | Arconic     | 08/02/2018     |  |  |  |  |  |  |
| 7085-T711    | Plate             | Arconic     | 08/02/2018     |  |  |  |  |  |  |
| 7085-T721    | Plate             | Arconic     | 08/02/2018     |  |  |  |  |  |  |
| 7160-T7351   | Plate             | Constellium | 02/06/2020     |  |  |  |  |  |  |
| 7160-T7651   | Plate             | Constellium | 12/19/2018     |  |  |  |  |  |  |
| 2050-T34     | Plate             | Constellium | 02/01/2019     |  |  |  |  |  |  |

|                                    | Deactivated Tempers |                  |  |  |  |  |  |  |  |
|------------------------------------|---------------------|------------------|--|--|--|--|--|--|--|
| Alloy /Temper                      | Product             | Date Deactivated |  |  |  |  |  |  |  |
| Alclad 2024-O <sup>2</sup>         | Sheet & Plate       | 08/11/2018       |  |  |  |  |  |  |  |
| Alclad 2024-T351 <sup>2</sup>      | Plate               | 08/11/2018       |  |  |  |  |  |  |  |
| Alclad 2024-T42 <sup>2</sup>       | Sheet & Plate       | 08/11/2018       |  |  |  |  |  |  |  |
| 1 ½% Alclad 2024-O <sup>2</sup>    | Sheet & Plate       | 08/11/2018       |  |  |  |  |  |  |  |
| 1 ½% Alclad 2024-T351 <sup>2</sup> | Plate               | 08/11/2018       |  |  |  |  |  |  |  |
| 1 ½% Alclad 2024-T42 <sup>2</sup>  | Sheet & Plate       | 08/11/2018       |  |  |  |  |  |  |  |

<sup>\*\*</sup> Deactivation is limited to specific gauge range(s) for the product indicated

- 4.b. Material shall be capable of passing the stress corrosion cracking test described in ASTM G47 when stressed to: b. 35 ksi.
- 4.e. Material shall be capable of passing the stress corrosion cracking test described in ASTM G47 when stressed to: e. 45 ksi.
- 15. b. Material shall be capable of demonstrating exfoliation corrosion resistance. Exfoliation corrosion resistance shall be determined in accordance with ASTM G34 and material shall not exhibit exfoliation corrosion greater than that illustrated by Photo EB, Figure 2. The applicable sample plane for testing is indicated by one of the following locations: b. At the T/10 plane.