



Aluminum Coil Anodizing Corporation  
 501 E Lake Street • Streamwood IL 60107  
 Phone: 630-837-4000 • Fax: 630-837-0814  
 www.acacorp.com

# Product Specification Document

ACAD-768AB-BF Rev 1

**Product ID: 768AB-BF Bright Gold**

**Application: Architectural and Decorative**

|                                  |                       |              |   |
|----------------------------------|-----------------------|--------------|---|
| <b>Material Specification:</b>   |                       |              |   |
| Alloy:                           | 1090                  |              |   |
| Temper:                          | H19                   |              |   |
| Mechanical Properties (typical): |                       |              |   |
| Tensile Strength:                | 180 N/mm <sup>2</sup> | (26,000 psi) | For White Paint:<br>1T bend: n/a<br>1T bend – dry heat: n/a<br>0T bend: n/a |
| Yield Strength:                  | 165 N/mm <sup>2</sup> | (24,000 psi) |   |
| Elongation:                      | 4%                    |              |   |
| Minimum Bend Radii:              | 1T                    |              |   |

|   |                    |          |   |           |   |
|---|--------------------|----------|---|-----------|---|
| <b>Optical / Anodized Properties:</b>     |                    |          |   |           |   |
| Total Reflectance (TR%) <sup>1</sup> :    | % minimum          |          | <sup>1</sup> (Technidyne TR-2 (ASTM 1651-94))         |           |   |
| Distinctness of Image (DI) <sup>2</sup> : | 86 minimum         |          | <sup>2</sup> (Hunter Labs D47 Dorigon (ASTM E430-83)) |           |   |
| Specular Reflectance (RS) <sup>2</sup> :  | n/a                |          | <sup>3</sup> (DIN 67530)                              |           |   |
| 15° Diffuseness (15°) <sup>2</sup> :      | .03 maximum        |          | <sup>4</sup> (Byk Gardner Micro Gloss Meter)          |           |   |
| Dr. Lange 60° <sup>3</sup> :              | w/g                | n/a      | a/g   | n/a       | <sup>5</sup> (ASTM B137-89)                 |
| Gardner 60° Gloss <sup>4</sup> :          | w/g                | n/a      | a/g   | n/a       | <sup>6</sup> (Hunter Lab mini-Scan XE Plus) |
| Anodize Film Thickness <sup>5</sup> :     | 1.5 to 2.5 microns |          | (0.00006 to 0.00010 inch)                             |           |   |
| Iridescence Rating:                       | Not Controlled     |          |   |           |   |
| Color <sup>6</sup> :                      | L*                 | 80 to 90 | a*  | .0 to 6.0 | b* 28 to 32                                 |

|                      |                 |                       |  |  |
|----------------------|-----------------|-----------------------|--|--|
| <b>Availability:</b> | Sheet and Coil  |                       |  |  |
| Gage:                | 0.30 to 1.0 mm  | (0.012 to 0.040 inch) |  |  |
| Width:               | 12.7 to 1250 mm | (0.50 to 49.213 inch) |  |  |
| Length:              | up to 3660 mm   | (up to 144 inch)      |  |  |

|   |                          |   |              |  |
|---|--------------------------|---|--------------|--|
| <b>Tolerances (standard):</b> (Tighter tolerance may be possible. Contact your sales representative.) |                          |   |              |  |
| Gage:   | From:                    | 0.25 to 0.40 mm                             | +/- 0.025 mm | (0.010 to 0.016 inch, +/- 0.001 inch)  |
|   |                          | 0.41 to 0.80 mm                             | +/- 0.040 mm | (0.017 to 0.032 inch, +/- 0.0015 inch) |
|   |                          | 0.81 to 1.00 mm                             | +/- 0.050 mm | (0.033 to 0.040 inch, +/- 0.002 inch)  |
| Slit Width:   | From:                    | 12.5 to 305 mm                              | +/- 0.125 mm | (0.5 to 12 inch, +/- 0.005 inch)       |
|   |                          | 306 to 610 mm                               | +/- 0.38 mm  | (12.1 to 24 inch, +/- 0.015 inch)      |
|   |                          | 611 to 1250 mm                              | +/- 0.50 mm  | (24.1 to 50 inch, +/- 0.020 inch)      |
| Sheet:  | Length:                  | Up to 1524 mm                               | +/- 1.0 mm   | (Up to 60 inch, +/- 0.040 inch)        |
|   |                          | 1525 to 3050 mm                             | +/- 1.5 mm   | (60 to 120 inch, +/- 0.060 inch)       |
|   |                          | 3051 to 3660 mm                             | +/- 2.0 mm   | (120 to 144 inch, +/- 0.080 inch)      |
|   | Squareness: <sup>1</sup> | Up to 1200 mm                               | +/- 0.5 mm   | (Up to 48 inch, +/- 0.020 inch)        |
|   |                          | 1201 to 2400 mm                             | +/- 1.0 mm   | (49 to 95 inch, +/- 0.040 inch)        |
|   |                          | 2401 to 3660 mm                             | +/- 1.5 mm   | (96 to 144 inch, +/- 0.060 inch)       |
|   |                          | <sup>1</sup> Difference in diagonals        |              |  |
| Lateral Bow (in one meter):   | Width Under 300 mm:      | 2.5 mm max.                                 |              | (Width Under 12 inch: 0.100 inch)      |
|   | Width Over 300 mm:       | 1.25 mm max.                                |              | (Width Over 12 inch: 0.050 inch)       |
| Flatness:   | Height between waves:    | 1% of wave length, 8mm (0.32 inch) maximum. |              |  |
| Burr:   | 10% of gage              | Not to exceed .08 mm (.003 inch)            |              |  |