



Aluminum Coil Anodizing Corporation
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Product Specification Document

ACAD-425OE/BF Rev 3

Product ID:		425OE/BF Super UltraBrite 95										
Application:		Enhanced Lighting Reflectors, Natural Tube and LCD Reflectors										
Material Specification:												
Alloy:	1090 base - 99.99% Aluminum PVD											
Temper:	H19											
Mechanical Properties (typical):												
Tensile Strength:	180 N/mm ²	(26,000 psi)	<table border="1"> <tr> <td colspan="2">For White Paint:</td> </tr> <tr> <td>1T bend:</td> <td>n/a</td> </tr> <tr> <td>1T bend – dry heat:</td> <td>n/a</td> </tr> <tr> <td>0T bend:</td> <td>n/a</td> </tr> </table>		For White Paint:		1T bend:	n/a	1T bend – dry heat:	n/a	0T bend:	n/a
For White Paint:												
1T bend:	n/a											
1T bend – dry heat:	n/a											
0T bend:	n/a											
Yield Strength:	165 N/mm ²	(24,000 psi)										
Elongation:	4%											
Minimum Bend Radii:	1T											
Optical / Anodized Properties:												
Total Reflectance (TR%) ¹ :	95% minimum		¹ (Technidyne TR-2 (ASTM 1651-94))									
Distinctness of Image (DI) ² :	96 minimum		² (Hunter Labs D47 Dorigon (ASTM E430-83))									
Specular Reflectance (RS) ² :	84 minimum		³ (DIN 67530) – Std = 93									
15° Diffuseness (15°) ² :	0.00		⁴ (Byk Gardner Micro Gloss Meter)									
Dr. Lange 60° ³ :	w/g	85 - 95	a/g	85 - 95								
Gardner 60° Gloss ⁴ :	w/g	n/a	a/g	n/a								
Anodize Film Thickness ⁵ :	n/a to n/a microns		(n/a to n/a inch)									
Iridescence Rating:	Premium Low Iridescence											
Color ⁶ :	L*	n/a	a*	n/a								
			b*	n/a								
Availability: Sheet and Coil												
Gage:	0.3 to 0.80 mm		(0.012 to 0.032 inch)									
Width:	12.7 to 1000 mm		(0.5 to 39.370 inch)									
Length:	up to 3660 mm		(up to 144 inch)									
Tolerances (standard): (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: ¹	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)								
¹ Difference in diagonals												
Lateral Bow (in one meter):	Width	Under 300 mm: 2.5 mm max.	(Width Under 12 inch: 0.100 inch)									
		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)										