



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-940AD/DG Rev 2

Product ID: 940AD/DG Semi-Specular LI					
Application: Lighting Louvers and Reflectors					
Material Specification:					
Alloy:	5205				
Temper:	H17				
Mechanical Properties (typical):					
Tensile Strength:	180 N/mm ²		(26,000 psi)	For White Paint:	
Yield Strength:	170 N/mm ²		(25,000 psi)	1T bend:	n/a
Elongation:	2%			1T bend – dry heat:	n/a
Minimum Bend Radii:	1T			0T bend:	n/a
Optical / Anodized Properties:					
Total Reflectance (TR%) ¹ :	84% minimum			¹ (Technidyne TR-2 (ASTM 1651-94))	
Distinctness of Image (DI) ² :	20-50			² (Hunter Labs D47 Dorigon (ASTM E430-83))	
Specular Reflectance (RS) ² :	n/a			³ (DIN 67530)	
15° Diffuseness (15°) ² :	.40-.75			⁴ (Byk Gardner Micro Gloss Meter)	
Dr. Lange 60° ³ :	w/g	n/a	a/g	n/a	⁵ (ASTM B137-89)
Gardner 60° Gloss ⁴ :	w/g	n/a	a/g	n/a	⁶ (Hunter Lab mini-Scan XE Plus)
Anodize Film Thickness ⁵ :	2.8 to 3.8 microns (0.00011 to 0.00015 inch)				
Iridescence Rating:	Premium Low Iridescence				
Color ⁶ :	L*	n/a	a*	n/a	b* n/a
Availability: Sheet and Coil					
Gage:	0.40 to 0.80 mm		(0.016 to 0.032 inch)		
Width:	12.7 to 1250 mm		(0.50 to 49.213 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)			