



Aluminum Coil Anodizing Corporation
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Product Specification Document

ACAD-493MR-QA Rev 5

Product ID:		493MR/QA UltraWhite HR		
Application:		Lighting Reflectors and Louvers		
Material Specification:				
Alloy:	3XXX			
Temper:	HX4-HX6			
Mechanical Properties (typical):				
Tensile Strength:	193 MPa	(28,000 psi)		
Yield Strength:	179 MPa	(26,000 psi)		
Elongation:	≥3%			
Optical / Anodized Properties:				
Total Reflectance (TR%) ¹ :	90% min	¹ (Technidyne TR-2 (ASTM 1651-94))		
Distinctness of Image (DI) ² :	n/a	² (Hunter Labs D47 Dorigon (ASTM E430-83))		
Specular Reflectance (RS) ² :	n/a	³ (DIN 67530)		
15° Diffuseness (15°) ² :	n/a	⁴ (Byk Gardner Micro Gloss Meter)		
Dr. Lange 60° ³ :	w/g 70 min	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 :	n/a to n/a microns (n/a to n/a inch)			
Iridescence Rating:	Premium Low Iridescence			
Color ⁶ :	L* 94 to 98	a* -3 to 1	b* -1 to 3	
Availability:				
	Sheet and Coil			
Gage:	0.40 to 0.50 mm	(0.016 to 0.020 inch)		
Width:	12.7 to 1270 mm	(0.50 to 50 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)
	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)		