



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-401MH/UA Rev 2

Product ID: 401MH/UA Clear Architectural Class II (Gages 0.063" - 0.125")

Application: Intermediate Exterior Architectural

Material Specification:

Alloy: 5005

Temper: H14

Mechanical Properties (typical):

Tensile Strength: 166 N/mm² (24,000 psi)
 Yield Strength: 159 N/mm² (23,000 psi)
 Elongation: 3%
 Minimum Bend Radii: 1T

For White Paint:

1T bend: n/a
 1T bend – dry heat: n/a
 0T bend: n/a

Optical / Anodized Properties:

Total Reflectance (TR%) ¹ :	n/a% minimum				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	n/a	a/g	n/a	⁵ (ASTM B137-89)	
Gardner 60° Gloss ⁴ :	w/g	25-45	a/g	20-40	⁶ (Hunter Lab mini-Scan XE Plus)	
Anodize Film Thickness ⁵ :	10 to 17.5 microns (0.0004 to 0.00069 inch)					
Iridescence Rating:	Not Controlled					
Color ⁶ :	L*	n/a	a*	n/a	b*	n/a

Availability: Sheet and Coil

Gage: 1.6 to 3.18 mm (0.063 to 0.125 inch)
 Width: 12.7 to 1550 mm (0.50 to 61 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)
		1.01 to 1.60 mm	+/- 0.076 mm	(0.041 to 0.063 inch, +/- 0.003 inch)
		1.61 to 2.50 mm	+/- 0.100 mm	(0.064 to 0.098 inch, +/- 0.004 inch)
		2.51 to 3.20 mm	+/- 0.130 mm	(0.099 to 0.126 inch, +/- 0.005 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)
		1251 to 1525 mm	+/- 0.76 mm	(50.1 to 60 inch, +/- 0.030 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)