CLEARMATT® ARCHITECTURAL CLASS II





FINISH DESCRIPTION

ClearMatt® Architectural Class II is a product developed by Lorin Industries and designed for exterior use to support multiple applications. ClearMatt® Architectural Class II finish meets the American Architectural Manufacturers Association (AAMA) standard for commercial anodic coatings used in interior applications or exterior applications receiving regularly scheduled cleaning and maintenance such as store fronts. If the designer is looking for an anodized aluminum product with natural metallic beauty and formable for multiple exterior applications, then Lorin's ClearMatt® Architectural Class II is the right choice.

MAINTENANCE AND CLEANING

The anodized aluminum finish can be washed with mild soap and water followed by a clean water rinse. For more information on cleaning anodized aluminum, please refer to the Aluminum Association Publication 92, Care of Aluminum or AAMA 609 & 610-09, Cleaning and maintenance guide for architecturally finished aluminum.

AVAILABILITY

The standard lead time for stocked gauges and widths is two weeks for anodizing and one week for any secondary services such as slitting, shearing and applying transparent protective films or paper.

Please check availability of Non-Stocked materials by contacting our sales staff using our toll free number 1-800-PAC-CLAD or email your request to info@pac-clad.com. Some raw materials may have extended lead times.

WARRANTY

A limited 20 year warranty is available upon request. The warranty is issued on a per project basis and can be applied for on line by completing an application for warranty at www.pac-clad.com.

REFERENCE PART NUMBER(S)

- ▶ 0605-425-050
- ▶ 0605-425-038
- ▶ 0605-425-041

INDUSTRY DESIGNATIONS

- Aluminum Association: M12-C23-A31
- Mil A-8625F Classification : Type II Sulfuric Anodize

INDUSTRY STANDARDS

- ▶ AAMA 611-12: Voluntary specification for anodized architectural aluminum
- Mil A-8625F Anodizing Standard : Anodic coatings for aluminum and aluminum alloys

SUSTAINABILITY AND LEED

- Recycled Content, 5005 alloy:
 - 100% recyclable
 - Recycled Content: 6.6%
 - Reclaimed-Virgin Material: 93.4% 2012.04.30 Millio
- Volatile Organic Compounds: The aluminum oxide layer does not contain any VOC's

ALUMINUM PROPERTIES

- ▶ Alloy: 5005
- Finish: Mill Finish
- Temper: H34

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- ▶ 0605-425-034
- ▶ 0605-425-035

CLEARMATT® ARCHITECTURAL CLASS II



Environment: Exterior

Seal: S1, Duplex Seal I

• Quality Grade: 2

• Other: None

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MECHANICAL PROPERTIES

- UTS: 20-26 ksi [138-179 MPa]
- **YTS:** 15 min [103 MPa]
- ▶ Elongation: 4% 5% min
- > T Bend: Recommended 1t 2t, min

CHEMICAL PROPERTIES

- ▶ Si: 0.30 %
- ▶ **Fe:** 0.7 %
- **Cu:** 0.20 % ▶ Mn: 0.20 %

- ▶ Mg: 0.50—1.1 %

STOCK GAUGE AVAILABILITY¹

- 0.032" (0.8 mm)
- ▶ 0.040" (1.0 mm)
- ▶ 0.050" (1.3 mm)

STOCK WIDTH AVAILABILITY 2

▶ 48.0″ (1219 mm)

ANODIZE FILM THICKNESS

Architectural Class II: 0.400 mils [10.2 µm] minimum

ANODIZE FINISH PROPERTIES 3

- ▶ Optical: Not Applicable
- ▶ Gloss: Coarse Matte
- **Color :** Natural Aluminum
- Color Target: Not Applicable
- UV Stable: Yes

ALUMINUM SECONDARY SERVICES

- Shearing, Width Capabilities: 7" (178mm) 62" (1575 mm)
- Shearing, Length Capabilities: Up to 192" (4876 mm)
- ▶ Shearing, Loading Gauge: Up to 0.080" (2.0 mm)
- Slitting, Width Capabilities: 0.75" (19 mm) min
- Slitting, Loading Gauge: Up to 0.100" (2.5 mm)
- Other Secondary Services:
 - Protective peelable films
 - International packaging
 - Perforating and embossing

ANODIZED FINISH TEST DATA			
CHARACTERISTIC	TEST METHOD	STANDARD	TEST RESULTS
Oxide Layer, Thickness	ASTM B244 - Eddy current method	AAMA 611-12, 10 μm (0.400 mils) min	Nominal Target, 11.4 µm (0.450 mils)
Oxide Layer, Weight	ASTM B137 - Coating Dissolution	AAMA 611-12, 2.4mg/cm ² (15.5mg/in ²)	> 2.4mg/cm ² (15.5mg/in ²)
Gloss Uniformity	ASTM D523 - 60° Gloss Reflectance	AAMA 611-12, must meet agreed upon specification	Lorin Gloss E7D, Nominal Target 30
Abrasion Resistance	ASTM D4060 - Taber abrasive wheel	Based on a anodic film thickness, 11 μm (0.400 mils)	5,000 cycles; 8.2 mg / wgt loss; 1.6 wear index
Film Hardness	ASTM D3363 - Pencil Hardness	Based on a anodic film thickness, 11 μm (0.400 mils)	9H Hardness
Corrosion Resistance	ASTM B117 - Neutral Salt Spray	AAMA 611-12, 1,000 hours \leq 15 pits less than 1mm, 381 cm ² (150in ²)	Pass, No visible pits
Weathering	SAE J1960 - ATLAS Accelerated testing using an Xenon Arc light source	AAMA 611-12, 10 year Florida Exposure with max Δ Delta E of 5.0	Delta E 0.1; 3,929 hours equivalent to 2.00 years South Florida Sun (20140602)
Craze Resistance	AAMA 611-12 - Thermal Crazing of the oxide layer	AAMA 611-12, oxide layer shall not craze less than 82°C (120°F)	No visible evidence of Thermal Crazing
Chemical Resistance	ASTM D1308 - Effect of Household Chemicals	10% Reagent grade Muriatic Acid, 15 minute exposure at ambient temp	No blisters, No peeling. Subtle stain
Seal Quality	ASTM B680 - Acid Dissolution	AAMA 611-12, max weight loss shall be 40mg/ dm ²	< 20mg/dm² (1.3mg/in²)

1: Other gauges can be custom ordered. 2: Other widths can be custom ordered. 3: Panel-to-Panel match quality can be custom ordered. PAC-CLAD® is a registered trademark of Petersen Aluminum Corporation. The PAC-CLAD finish is 70% polyvinylidene fluoride (PVDF). 5/23

- Al: Remainder

• 0.063" (1.6 mm)

• 0.080" (2.0 mm)

▶ Cr: 0.10 % **Zn:** 0.25 % • Other: 0.15 %