

SECTION 05 0513 - ANODIC COATINGS - LORIN INDUSTRIES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Factory-applied anodic coatings for aluminum sheet.

1.02 RELATED REQUIREMENTS

1.03 REFERENCE STANDARDS

- A. AAMA 609 & 610 - Cleaning and Maintenance Guide for Architecturally Finished Aluminum (Combined Document) 2015.
- B. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum 2020.
- C. AAMA 612 - Voluntary Specification, Performance Requirements, and Test Procedures for Combined Coatings of Anodic Oxide and Transparent Organic Coatings on Architectural Aluminum 2020, with Errata (2022).
- D. ASTM B117 - Standard Practice for Operating Salt Spray (Fog) Apparatus 2019.
- E. AWI (AWS) - Architectural Woodwork Standards 2014, with Errata (2016).
- F. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate 2014.
- G. ASTM B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate (Metric) 2014.
- H.
- I. ASTM D523 - Standard Test Method for Specular Gloss 2014 (Reapproved 2018).
- J. NAAMM AMP 500-06 - Metal Finishes Manual 2006.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Comply with AAMA 609 & 610 for protection, storage, and handling of anodized aluminum finishes.
- B. Protect finished items from damage during handling and transportation.
- C. Store products protected from exposure to harmful weather conditions and at temperature conditions recommended by manufacturer.

PART 2 PRODUCTS

2.01 ANODIC COATING SUPPLIER

- A. Lorin Industries, Inc: www.lorin.com/#sle.

2.02 MATERIALS

- A. General: Provide sheet metal without pitting, seam marks, roller marks, stains, discolorations, or other imperfections exposed to view on finished units.
- B. Aluminum Sheet: ASTM B209 or ASTM B209M, 5005-H32 minimum.

2.03 FINISHES

- A. Finishes, General: Comply with NAAMM AMP 500-06.
 - 1. Protect mechanical finishes on exposed surfaces from damage.
 - 2. Appearance: Limit variations in appearance of adjacent pieces to one-half of range represented in approved samples. Noticeable variations in same piece are not acceptable. Install components within range of approved samples to minimize contrast.
- B. Anodic Finish Performance Requirements:
 - 1. Anodized Coating Mass: Comply with AAMA 612, minimum, for specified class when tested according to AWI (AWS).

2. Seal Quality: Maximum weight loss of 0.0001 ounce per square inch (40 mg/sq dm) when tested according to {rs\#1}.
 3. Salt Spray Resistance: Comply with AAMA 612, minimum, for specified class when tested for 1000 hours according to ASTM B117.
 4. Gloss: Comply with AAMA 612, minimum, for specified finish when tested according to ASTM D523.
- C. Aluminum Finishes: Provide manufacturer's standard anodized finish coating described below.
1. Copper Finishes:
 - a. Copper Penny Architectural Class II: AAMA 611 AA-M12-C23-A34, Architectural Class II, coarse matte, integrally colored, anodic coating not less than 0.4 mils (0.01 mm) thick.

2.04 FABRICATION

- A. Provide manufacturer's standard slitting, cut-to-length, and packaging services.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify substrate condition. Determine conditions are acceptable for coating application according to manufacturer's written instructions.
- B. If substrate preparation is responsibility of another party, notify Architect of unsatisfactory preparation before proceeding.
- C. Notify Architect in writing of conditions detrimental to proper and timely completion of work. Do not proceed until unsatisfactory conditions have been corrected.

END OF SECTION

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