



ANOZINC® PREMIUM WITH ARCONIC TECTUR-AL™ IS CURRENTLY UNDER DEVELOPMENT BY LORIN INDUSTRIES AND DESIGNATED SPECIFICALLY FOR EXTERIOR APPLICATIONS.

This finish is being developed with a nominal film thickness of 25 microns; minimum film of 24.1 microns.

INDUSTRY DESIGNATIONS

Aluminum Association
AA-M12-C22-A43
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

ALUMINUM PROPERTIES

Alloy ZN30
Temper Half Hard
Finish Mill Finish

MECHANICAL PROPERTIES

UTS 22-28 ksi [152-193MPa]
YTS 19-25 ksi [131-172 MPa]
Elongation 8% minimum
Bend Radii Recommended 1t min

CHEMICAL PROPERTIES

Si 1.5 - 2.0 %
Fe 0.3 - 0.7 %
Cu 0.15 - 0.30 %
Mn 0.6 - 0.9 %
Mg 0.3 - 0.6 %
Cr < 0.2 %
Zn < 0.4 %
Other < 0.1 %
Al Remainder

ANODIZE FILM THICKNESS

Architectural Exterior
Anodize Thickness Range:
0.950 mils (24.1um)-0.105 mils (26.7um)

ANODIZE FINISH PROPERTIES

Optical Not Applicable
Gloss Coarse Matte
Color Under-Development
Color Target < Δ Delta E of 10.0
UV Stable Yes
Environment Exterior
Quality Grade 5
Other This alloy has a natural surface variation that can change from coil-to-coil and each lot purchased. This product will have a variegated surface finish and is considered an acceptable attribute for this material. The variegated surface finish can also interfere with color measurement, therefore the color specifications established for this finish is wider than our standard color tolerances.

WIDTH AVAILABILITY

48.5" (1232 mm)

Other widths can be custom ordered.

GAUGE AVAILABILITY

0.025" (0.6 mm)

ANODIZED FINISH TEST DATA

CHARACTERISTIC	TEST METHOD	STANDARD	TEST RESULTS
Oxide Layer, Weight	ASTM B137 - Coating Dissolution	AAMA 611-12, 4.18 mg/cm ² (27.0 mg/in ²)	Target > 4.18 mg/cm ² (27.0 mg/in ²)
Gloss Uniformity	ASTM D523 - 60° Gloss Reflectance	AAMA 611-12, Must meet agreed upon specification	Lorin Gloss E17, Nominal Target 10
Color Uniformity	ASTM B2244 - Calculation Δ Delta E	AAMA 611-12, must meet agreed upon specification	Under-Development
Film Hardness	ASTM D3363 - Pencil Hardness	Based on a anodic film thickness, 18 μm (0.700 mils)	9H Hardness
Corrosion Resistance	ASTM B117 - Neutral Salt Spray	AAMA 611-12, 3,000 hours ≤ 15 pits < 1mm, 381 cm ² (150in ²)	Under-Development
Weathering	SAE J1960 - ATLAS Accelerated testing using an Xenon Arc light source	AAMA 611-12, 10 year Florida Exposure max Δ Delta E of 5.0	Under-Development
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)	Under-Development
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 wgt loss shall be 40mg/dm ² (2.6mg/in ²)	Target < 20mg/dm ² (1.3mg/in ²)

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 peel-able films

International packaging

Perforating and embossing

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.

SUSTAINABILITY AND LEED

Recycled Content:

100% recyclable

Reclaimed > 90.0%

Mill06

Volatile Organic Compounds:

The aluminum oxide layer does not contain any VOC's

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 800.654.1159 or email your request to info@lorin.com. Some raw materials may have extended lead times.

TECHNICAL SUPPORT

A staff of factory trained personnel are available to offer technical assistance. Please call our toll free number 800.654.1159 or email your question to info@lorin.com.

PRODUCT SUPPORT PARTNERS

Lorin Industries works very closely with many manufacturers' in multiple markets who specialize in anodized aluminum fabrication. Our support staff can assist you if you are looking for finished components. Please call our toll free number 800.654.1159 or email your request for product and application support to info@lorin.com.

WARRANTY

A 20-year limited 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 Lorin.com.