CLEARMATT® EXTERIOR STANDARD #1 IS A PRODUCT DEVELOPED BY LORIN INDUSTRIES AND DESIGNED FOR BOTH INTERIOR AND EXTERIOR USES TO SUPPORT MULTIPLE APPLICATIONS.

ClearMatt® Exterior Standard #1 product has a anodize film thickness that makes it quite versatile for applications requiring reasonable abrasion resistance and corrosion protection with limited exposure to the elements where the anodic layer is periodically cleaned and maintained. If the designer is looking for an anodized aluminum product with natural metallic beauty and formable for multiple exterior applications, then Lorin's ClearMatt® Exterior Standard #1 is the right choice.

INDUSTRY DESIGNATIONS

Aluminum Association
AA-M12-C22-A21
Mil A-8625F Classification
Type II Sulfuric Anodize

INDUSTRY STANDARDS

Mil A-8625F Anodizing Standard
Anodic coatings for aluminum and aluminum alloys

ALUMINUM PROPERTIES

Alloy 5005
Temper .... Half Hard
Finish................... Mill Finish

MECHANICAL PROPERTIES

UTS .... 20-26 ksi [138-179 MPa]
YTS .... 15 min [103 MPa]
Elongation .... 4% - 5% min

CHEMICAL PROPERTIES

Si .... 0.30 %
Fe .... 0.7 %
Cu....................... 0.20 %
Mn .... 0.20 %
Mg .... 0.50 - 1.1 %
Cr........................ 0.10 %
Zn .... 0.25 %
Other .... 0.15 %
Al .... Remainder

ANODIZE FILM THICKNESS

Exterior Standard #1:

ANODIZE FINISH PROPERTIES

Optical .... N/A
Gloss .... Medium Matte
Color.................... Natural Aluminium
Color Target .... N/A
UV Stable .... Yes
Environment........ Interior or Exterior
Quality Grade...... 2
Other .... None

WIDTH AVAILABILITY

48.0" (1219 mm)
Other widths can be custom ordered.

GAUGE AVAILABILITY

0.032" (0.8 mm)
0.040" (1.0 mm)
0.050" (1.3 mm)
0.063" (1.6 mm)
0.080" (2.0 mm)

ANODIZED FINISH TEST DATA

CHARACTERISTIC	TEST METHOD	STANDARD	TEST RESULTS
Oxide Layer, Weight	ASTM B137 - Coating Dissolution		> 1.5 mg/cm² (9.7 mg/in²)
Gloss Uniformity	ASTM D523 - 60° Gloss Reflectance	Medium Coarse, Matte Finish	Lorin Gloss E7H, Nominal Target 50
Film Hardness	ASTM D3363 - Pencil Hardness	Based on a anodic film thickness, 6.4 µm (0.250 mils)	9H Hardness
Corrosion Resistance	ASTM B117 - Neutral Salt Spray	500 hours, No Visible Pits	Pass, No visible pits
Seal Quality	ASTM B136 - Dye Stain	Dye Stain Test, No Stain Visible	Pass, No Visible Stain

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, 5005 alloy:
100% recyclable
Recycled Content, 6.6%
Reclaimed-Virgin Material, 93.4%
2012.04.30 Mill6

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 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 Lorin.com.