

LORIN

DuraMatt® 3000

TECHNICAL DATA SHEET

Finish Description: DuraMatt® 3000 is a product developed by Lorin Industries and designed specifically for lighting reflector applications. DuraMatt® 3000 provides the lighting engineer with a low cost lighting reflector with a semi-specular surface finish.

Reference Part Number (s)

0300-100-002

Industry Designations

Aluminum Association Designation

AA-M12-C32-A21

Mil A-8625F Classification

Type II Sulfuric Anodize

Industry Standards

ISO 9001

Quality Management System

MIL A-8625F Anodizing Standard

Anodic Coatings for Aluminum and Aluminum alloys

Aluminum Properties

Alloy: 5205

Temper: H14

Finish: Mill Finish

Mechanical Properties

UTS: 21ksi [145 MPa] - 27ksi [186 MPa]

YTS: 17 min [117 MPa]

Elongation: 1% minimum

T Bend: Recommended 1t minimum

Chemical Properties

Si: 0.15 %

Fe: 0.7 %

Cu: 0.03 - 0.10 %

Mn: 0.10 %

Mg: 0.6 - 1.0 %

Cr: 0.10 %

Zn: 0.05 %

Other: 0.15 %

Al: Remainder

Stock Gauge Availability ¹

0.0157" (0.4 mm)

Stock Width Availability ²

49.21" (1250 mm)

Anodize Film Thickness

Decorative Anodic Layer:

0.100 mils [2.5 µm]

Anodize Finish Properties

Optical:

60° with Grain: 100-800

60° against Grain: 40-600

Gloss: Not Applicable

Color : Natural Aluminum

Color Target: Not Applicable

UV Stable: Yes

Environment: Interior

Seal: S4, HWO Seal

Quality Grade: 3

Other: None

Footnotes: 1 - Other gauges can be custom ordered. 2 - Other widths can be custom ordered.



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 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%
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- 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 warranty may be 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.Lorin.com

Anodized Finish Test Data

Characteristic	Test Method	Standard	Test Results
Oxide Layer, Thickness	ASTM B244 - Eddy current method	AA Protective & Decorative coatings less than 10.2 µm (0.400 mils) maximum	Nominal Target, 2.5 µm (0.100 mils)
Oxide Layer, Weight	ASTM B137 - Coating Dissolution		> 0.7 mg/cm ² (3.8 mg/in ²)
Seal Quality	ASTM B136 - Dye Stain	Dye Stain Test, No Stain Visible	Pass, No Visible Stain

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