

TECHNICAL DATA SHEET

PreMirror® 41M

Finish Description: Lorin's PreMirror® 41M finish was developed to provide lighting engineers with a high quality specular finish with a light output in excess of 86% total reflectance that has special mechanical properties for applications requiring improved formability.

Reference Part Number (s)

0131-060-023 0131-060-025
0131-060-026

Industry Designations

Aluminum Association

AA-M11-C31-A21

Mil A-8625F Classification

Type II Sulfuric Anodize

Industry Standards

ISO 9001: 2008

Quality management system

Mil A-8625F Anodizing Standard

Anodic coatings for aluminum and aluminum alloys

Aluminum Properties

Alloy: 5657

Temper: H25

Finish: One-Side Bright (OSB)

Mechanical Properties

UTS: 20ksi [138MPa]-28ksi [193MPa]

YTS: Not Specified

Elongation: 8% min

Bend Radii: Recommended 1t min

Chemical Properties

Si: 0.08 %

Fe: 0.10 %

Cu: 0.10 %

Mn: 0.03 %

Mg: 0.6 - 1.0 %

Zn: 0.05 %

Ga: 0.03%

V: 0.05 %

Other: 0.05%

Al: Remainder

Stock Gauge Availability ¹

0.016" (0.4 mm)

0.030" (0.8 mm)

0.040" (1.0 mm)

Stock Width Availability ²

48.0" (1219 mm)

48.5" (1232 mm) - 0.025" gauge only

Anodize Film Thickness

Decorative Anodic Layer:

0.060 mils [1.5 µm]

Anodize Finish Properties

Optical:

Rs: 60-100

D/I: 90-100

TR: 86% min

60° with Grain: 710 - 880

60° against Grain: 570 - 890

Gloss: Not applicable

Color : Natural Aluminum

Color Target: Not applicable

UV Stable: Yes

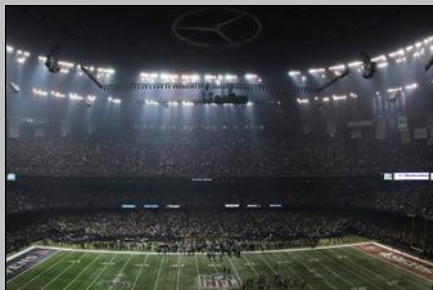
Environment: Interior ³

Seal: S3, Duplex Seal III

Quality Grade: 1

Other:

Footnotes: 1 -Other gauges can be custom ordered. 2 -Other widths can be custom ordered. 3 -This product is available for exterior use; a minimum film thickness of 0.225 mils (6.4 µm) required - PreMirror® 11.



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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:**
100% recyclable
Recycled Content = 0 %
- 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 coating less than 10.2 µm (0.400 mils) maximum	Nominal Target, 1.5 µm (0.060 mils)
Oxide Layer, Weight	ASTM B137 - Coating Dissolution		> 0.4 mg/cm ² (2.3 mg/in ²)
Seal Quality	ASTM B136 - Dye Stain	Dye Stain Test	Pass, No Visible Stain

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