

# TECHNICAL DATA SHEET

## Silver White

**Finish Description:** SilverWhite is a product developed by Lorin Industries and designed specifically for exterior use to support multiple applications. SilverWhite meets the American Architectural Manufacturers Association (AAMA) standard for commercial anodic coatings used in interior or exterior applications receiving regularly scheduled cleaning and maintenance such as store fronts. If the designer is looking for an anodized aluminum product with natural metallic beauty providing a hint of white, Lorin's SilverWhite is the right choice.

### Reference Part Number (s)

0609-425-001

### Industry Designations

#### Aluminum Association

AA-M12-C23-A31

#### Mil A-8625F Classification

Type II Sulfuric Anodize

### Industry Standards

#### AAMA 611-12

Voluntary specification for anodized architectural aluminum

#### ISO 9001: 2008

Quality management system

#### Mil A-8625F Anodizing Standard

Anodic coatings for aluminum and aluminum alloys

### Aluminum Properties

**Alloy:** 5005

**Temper:** H34

**Finish:** Mill Finish

### Mechanical Properties

**UTS:** 20-26 ksi [138-179 MPa]

**YTS:** 15 min [103 MPa]

**Elongation:** 4% - 5% min

**T Bend:** Recommended 1t - 2t, 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

### Stock Gauge Availability <sup>1</sup>

0.020" (0.5 mm)

### Stock Width Availability <sup>2</sup>

48.5" (1232 mm)

### Anodize Film Thickness

#### Architectural Class II:

0.400 mils [10.2 μm] minimum

### Anodize Finish Properties <sup>3</sup>

**Optical:** Not Applicable

**Gloss:** Coarse Matte

**Color :** Natural Aluminum

**Color Target:** Not Applicable

**UV Stable:** Yes

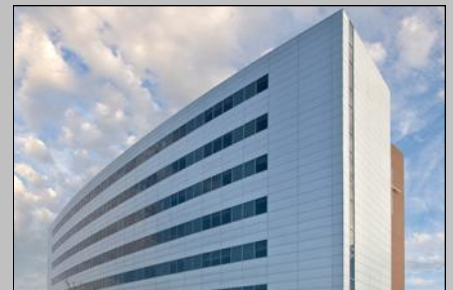
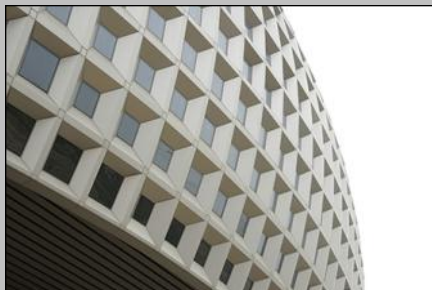
**Environment:** Exterior

**Seal:** S1, Duplex Seal I

**Quality Grade:** 2

**Other:** None

**Footnotes:** 1 - Other gauges can be custom ordered. 2 - Other widths can be custom ordered. 3 - Panel-to-Panel match quality can be custom ordered.



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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, 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](mailto: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](mailto: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](mailto: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 [www.Lorin.com](http://www.Lorin.com)

### Anodized Finish Test Data

Characteristic	Test Method	Standard	Test Results
Oxide Layer, Thickness	ASTM B244 - Eddy current method	AAMA 611-12, 10 µm (0.400 mils) min	Nominal Target 10.8 µm (0.425 mils)
Oxide Layer, Weight	ASTM B137 - Coating Dissolution	AAMA 611-12, 2.4mg/cm <sup>2</sup> (15.5mg/in <sup>2</sup> )	> 2.4mg/cm <sup>2</sup> (15.5mg/in <sup>2</sup> )
Gloss Uniformity	ASTM D523 - 60° Gloss Reflectance	AAMA 611-12, must meet agreed upon specification	Lorin Gloss E77, Nominal Target 10
Abrasion Resistance	ASTM D4060 - Taber abrasive wheel	Based on a anodic film thickness, 11 µm (0.400 mils)	5,000 cycles; 8.2 mg / wgt loss; 1.6 wear index
Film Hardness	ASTM D3363 - Pencil Hardness	Based on a anodic film thickness, 11 µm (0.400 mils)	9H Hardness
Corrosion Resistance	ASTM B117 - Neutral Salt Spray	AAMA 611-12, 1,000 hours ≤ 15 pits less than 1mm, 381 cm <sup>2</sup> (150in <sup>2</sup> )	Pass, No visible pits
Weathering	SAE J1960 - ATLAS Accelerated testing using an Xenon Arc light source	AAMA 611-12, 10 year Florida Exposure with max Δ Delta E of 5.0	Currently in the Test Chamber
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)	No visible evidence of Thermal Crazing
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 weight loss shall be 40mg/dm <sup>2</sup> (2.6mg/in <sup>2</sup> )	< 20mg/dm <sup>2</sup> (1.3mg/in <sup>2</sup> )

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