



**COLORIN® BLACKMATT ARCHITECTURAL CLASS I IS A FINISH DEVELOPED FOR EXTERIOR APPLICATIONS.**

It is a dark black textured anodized aluminum finish that utilizes a specialized two-step electrolytic coloring process with excellent fade resistance. ColorIn® BlackMatt Architectural Class I can be used for exterior applications.

**INDUSTRY DESIGNATIONS**

**Aluminum Association**  
AA-M12-C23-A24  
**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 ..... 5205  
Temper ..... Full Hard  
Finish ..... Short Line (SL) Brushed / Mill Finish

**MECHANICAL PROPERTIES**

UTS ..... 27 ksi min [186MPa]  
YTS ..... Not specified  
Elongation ..... 1% minimum  
T Bend ..... Recommended 3t minimum

**CHEMICAL PROPERTIES**

Si ..... 0.15 %  
Fe ..... 0.7 %  
Cu ..... 0.03 - 0.10 %  
Mn ..... 0.10 %  
Mg ..... 0.6 - 1.1 %  
Cr ..... 0.10 %  
Zn ..... 0.05 %  
Other ..... 0.15 %  
Al ..... Remainder

**ANODIZE FILM THICKNESS**

**Decorative Anodic Layer:**

**ANODIZE FINISH PROPERTIES**

Optical ..... N/A  
Gloss ..... Coarse Matte  
Color ..... Black  
Color Target ..... < Delta E of 5.0  
UV Stable ..... Yes  
Environment ..... Exterior  
Quality Grade ..... 2  
Other ..... None

**WIDTH AVAILABILITY**

48.5" (1232 mm)

*Other widths can be custom ordered.*

**GAUGE AVAILABILITY**

0.025" (0.6 mm)

*Other gauges can be custom ordered.*

**ANODIZED FINISH TEST DATA**

CHARACTERISTIC	TEST METHOD	STANDARD	TEST RESULTS
Oxide Layer, Weight	ASTM B137 - Coating Dissolution		> 1.5 mg/cm <sup>2</sup> (9.7 mg/in <sup>2</sup> )
Color Uniformity	ASTM B2244 - Calculation Δ in Delta E	Meet the agreed upon color specification	Lorin Color D046, Δ in Delta E ≤ 2.3
Gloss Uniformity	ASTM D523 - 60° Gloss Reflectance	Coarse, Matte Finish	Lorin Gloss E1D, Nominal Target 30
Film Hardness	AASTM D3363 - Pencil Hardness	Based on anodic 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	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](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 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](http://Lorin.com).