

LORIN

Architectural Project Guidelines

Lorin Industries continuously strives to provide the finest product quality and service in our industry. When it comes to architectural applications, we feel special attention needs to be given to the following considerations to ensure overall consistency, quality and excellence of your final projects.

◆ SUBSTRATE INFORMATION

Mill Quality Grades: AQ vs. Non-AQ

Aluminum mills produce different anodize quality grades of material. These grades are a product of alloy and mill rolling practices.

QUALITY GRADES	
Domestic Quality Grades designate which mill defects are guaranteed.	
<ul style="list-style-type: none"> • Full AQ Panel Match - Highest quality grade offered. Limited to specific alloys. Aka - AAQ (Architectural Anodize Quality) Not available from all mills. • Full AQ - Covers same defects as AQ Panel Match except for panel match. • Mill Practice AQ - Low level guarantee. Guarantee is subjective and varies from mill to mill. Defects covered must be negotiated with the mill. • Non-AQ - No guarantee of visual aesthetics. Will be free of dents, gouges and broken surface scratches. 	

Lorin Quality Grades

Lorin Industries has designated quality grades for all materials based on alloy, mill practices and application. All aluminum can be anodized but not all alloys are considered "Anodize Quality". Lorin uses a rating system of 1 to 5.

Quality Grade Guidelines			
For Visual Quality Inspections			
Quality Grade	Typical End Applications	Alloy	Mill Quality
1	- Architectural Products - Appliance / Food Service Products - High Specular Lighting Products	C985 C990 5005 1085 1090	Coil to Coil - Full AQ (Same mill lot / ingot) Highest grade offered. Limited to specific alloys Aka - AAQ (Architectural Anodize Quality)
2	- Architectural Products - Appliance / Food Service Products - General Stock Material	5005 5205 5657 50SF Z833	Full AQ Covers same defects as AQ Coil to Coil Match but limited to individual coil.
3	- Intermediate Grade	5754	Mill Practice AQ Low level guarantee that is subjective and varies from mill to mill. Defects covered must be negotiated with the mill.
4	- Functional Products with Surface Consistency Requirements - BriteGrip ®	3001 3003 1100 3105	Non-AQ No guarantee of visual aesthetics. Will be free of dents, gouges and broken surface scratches.
5	- Functional Products with NO Surface Consistency Requirements - AnoGrip ®	ZN30 1100 3001 3003 5052	Non-AQ No guarantee of visual aesthetics. Will be free of dents, gouges and broken surface scratches.

Mill Lot Variance

Anodize quality grade materials are very consistent; however, some lot variation should be expected. Lorin Industries *cannot* control mill lot variation. To avoid and/or reduce lot variation on large architectural projects, "Full AQ Coil to Coil Match" material should be requested.

Architectural Installation Guidelines

Lorin Industries recognizes some of the challenges presented during the installation of aluminum applications. To ensure overall project success, Lorin feels special consideration may need to be given to the some of the following parameters.

◆ **INSTALLATION GUIDELINES**

For best installation results, Lorin Industries recommends the following.

- Lorin Industries controls overall product appearance by exerting tight mill lot control ("*Full AQ*"). Lorin Industries CANNOT control appearance on tolling orders with mixed material lot numbers. We highly recommend the use of "*Full AQ*" or, at a minimum, the use of sequential mill lot numbers.
- Anodized material with or without masking film should be protected from the environment during storage at the jobsite prior to installation. Rain and excessive moisture can cause water damage to the anodized material prior to installation.
- Grain direction of the aluminum must be a consideration in the design of the panel construction and assembly. Opposing grain directions will create a checker-board pattern and may not be acceptable in the finished design.
- Install in accordance with sequential Lorin processing lots for maximization of color consistency.
- If masking film is applied to the finished panels, we recommend that the film be removed immediately following installation; or at the discretion of the contractor, if this needs to be completed prior to installing the panel.
- The Aluminum Association Publication 92 'Care of Aluminum' must be followed to maintain the natural beauty of the aluminum finish.
- Any questions or concerns on color, color match, color variation or finish while material is being installed, Lorin must be notified within 24 hours of noting the problem.
- If Lorin is requested on site for material issues or assistance in planning panel location, all necessary safety equipment and access to material will be provided to Lorin.

◆ **COMMUNICATIONS**

For further questions or information, please contact Lorin Industries at 1.800.654.1159 or visit www.lorin.com.