COMPARISON OF ANODIZED FINISH STANDARDS

	TEST	PERFORMANCE			ADVANTAGE	COMMENTS
		AAMA 612	AAMA 611			
			CLASS I	CLASS II		
FINISH	**Coating Thickness**	0.7 mils (18 microns)	0.7 mils (18 microns)	0.4 mils (10 microns)	None	The overall thickness of the coating helps to protect the integrity of the finish and the aluminum itself.
FINISH	**Color Uniformity**	Samples Shall Not Differ More Than 5 Delta E	Samples Shall Not Differ More Than 5 Delta E		None	Request manufacturer's color/range samples to view anticipated variances in color.
STRENGTH	**Hardness**	No Film Rupture Rating of 30 No Film Removal	Test: Michael Clark Abrasion Performance: Finish is Merely Burnished		**AAMA 611** (See Comments)	AAMA 612 finishes have a minimum hardness of 3H which is significantly harder than painted finishes used in commercial construction.
STRENGTH	**Muriatic Acid Resistance**	No Blistering & No Visual Change in Appearance	Samples Are Not Tested For Muriatic Acid Resistance		**AAMA 612**	Muriatic acid is a highly corrosive acidic chemical used to clean masonry and may damage anodize finishes with conventional seals.
STRENGTH	**Mortar Resistance**	No Blistering & No Visual Change in Appearance	Samples Are Not Tested For Mortar Resistance		**AAMA 612**	Mortar, a highly corrosive alkaline, is a very common substance on construction sites and will quickly damage anodize finishes with conventional seals.
STRENGTH	**Nitric Acid Resistance**	Maximum Change in Color of 5 Delta E	Samples Are Not Tested For Nitric Acid Resistance		**AAMA 612**	The nitric acid test is designed to determine a finishes ability to resist damage from acid rain.
STRENGTH	**Detergent Resistance**	No Blistering & No Visual Change in Appearance	Samples Are Not Tested For Detergent Resistance		**AAMA 612**	Detergent is often used to clean buildings and may damage anodized finishes with conventional seals.
STRENGTH	**Window Cleaner Resistance**	No Blistering & No Visual Change in Appearance	Samples Are Not Tested For Window Cleaner Resistance		**AAMA 612**	Window cleaner may damage anodized finishes with conventional seals.
DURABILITY	**Humidity Resistance**	Only a Few Small Blisters as Defined by ASTM D 714	Samples Are Not Tested For Humidity Resistance		**AAMA 612**	The high humidity in coastal environments is very corrosive to anodized finishes with conventional seals.
DURABILITY	**Salt Spray Resistance**	Min. Rating of 7 for the Scribed Area & 8 for Blisters ASTM D 1564 (4,000 Hours)	Samples Simply Exposed for 3,000 hours	Samples Simply Exposed for 1,000 hours	**AAMA 612**	The high salt in coastal environments is very corrosive to anodized finishes with conventional seals.
DURABILITY	**Gloss Retention**	Gloss Retention Shall Be a Min. of 50% After 5 Years South Florida	Samples Not Tested for Gloss Retention	Samples Not Tested for Gloss Retention	**AAMA 612**	Testing has revealed that anodized finishes with conventional seals may loose up to 50% of their gloss within 1 year.
DURABILITY	**Erosion**	Less Than 10% Film Thickness Lost After 5 Years South Florida	Samples Not Tested for Erosion Resistance	Samples Not Tested for Erosion Resistance	**AAMA 612**	Loss of film thickness will dramatically affect the durability and appearance of the finish.

AAMA 612: Voluntary Specifications, Performance Requirements, and Test Procedures for Combined Coatings of Anodic Oxide and Transparent Organic Coatings on Architectural Aluminum is the newest standard for anodized finishes issued by AAMA (American Architectural Manufacturers Association). The new standard is designed to evaluate the durability of the anodized finish by adding requirements for gloss retention, erosion, and increases by 33% – 400% the number of hours that the samples are tested for resistance to damage from salt spray. To ensure that the finish maintains its beauty, AAMA 612 requires that the anodized finish be able to resist damage from mortar, acid rain, pollution, detergent, and window cleaner. Tests have proven that to pass the additional tests required by AAMA 612 all of the pores of the anodic finish must be completely sealed.

Complete Aluminum Anodized Plus® meets or exceeds all of the requirements for AAMA 612.