

# Anodic Coating Designations

Type of Finish	Designation <sup>1</sup>	Description	Examples of Methods of Finishing <sup>2</sup>
General	A10	Unspecified	
	A11	Preparation for other applied coatings	3 μ (0.1 mil) anodic coating produced in 15% H <sub>2</sub> SO <sub>4</sub> at 21°C ± 1°C (70°F ± 2°F) at 129 A/m <sup>2</sup> (12 A/ft <sup>2</sup> ) for 7 min. or equivalent
	A12	Chromic acid anodic coatings	To be specified
	A13	Hard, wear and abrasion resistant coatings	To be specified
	A1X	Other	To be specified
Protective & Decorative Coatings less than 10 μ (0.4 mil) thick	A21	Clear coating	Coating thickness to be specified. 15% H <sub>2</sub> SO <sub>4</sub> used at 21°C ± 1°C (70°F ± 2°F) at 129 A/m <sup>2</sup> (12 A/ft <sup>2</sup> )
	A211	Clear coating	Coating thickness – 3 μ (0.1 mil) minimum. Coating weight – 6.2 g/m <sup>2</sup> (4 mg/in <sup>2</sup> ) minimum.
	A212	Clear coating	Coating thickness – 5 μ (0.2 mil) minimum. Coating weight – 12.4 g/m <sup>2</sup> (8 mg/in <sup>2</sup> ) minimum.
	A213	Clear coating	Coating thickness – 8 μ (0.3 mil) minimum. Coating weight – 18.6 g/m <sup>2</sup> (12 mg/in <sup>2</sup> ) min.
	A22	Coating with integral color	Coating thickness to be specified. Color dependent on alloy and process methods.
	A221	Coating with integral color	Coating thickness – 3 μ (0.1 mil) minimum. Coating weight – 6.2 g/m <sup>2</sup> (4 mg/in <sup>2</sup> ) minimum.
	A222	Coating with integral color	Coating thickness – 5 μ (0.2 mil) minimum. Coating weight – 12.4 g/m <sup>2</sup> (8 mg/in <sup>2</sup> ) minimum.
	A223	Coating with integral color	Coating thickness – 8 μ (0.3 mil) minimum. Coating weight – 18.6 g/m <sup>2</sup> (12 mg/in <sup>2</sup> ) min.
	A23	Coating with impregnated color	Coating thickness to be specified. 15% H <sub>2</sub> SO <sub>4</sub> used at 27°C ± 1°C (80°F ± 2°F) at 129 A/m <sup>2</sup> (12 A/ft <sup>2</sup> ) followed by dyeing with organic or inorganic colors.
	A231	Coating with impregnated color	Coating thickness – 3 μ (0.1 mil) minimum. Coating weight – 6.2 g/m <sup>2</sup> (4 mg/in <sup>2</sup> ) minimum.
	A232	Coating with impregnated color	Coating thickness – 5 μ (0.2 mil) minimum. Coating weight – 12.4 g/m <sup>2</sup> (8 mg/in <sup>2</sup> ) minimum.
	A233	Coating with impregnated color	Coating thickness – 8 μ (0.3 mil) minimum. Coating weight – 18.6 g/m <sup>2</sup> (12 mg/in <sup>2</sup> ) min.
	A24	Coating with electrolytically deposited colors	Coating thickness to be specified. Application of the anodic coating, followed by electrolytic deposition of inorganic pigment in the coating.
	A2X	Other	To be specified.
Architectural Class II <sup>3</sup> 10 to 18 μ (0.4 to 0.7 mil) coating	A31	Clear coating	15% H <sub>2</sub> SO <sub>4</sub> used at 21°C ± 1°C (70°F ± 2°F) at 129 A/m <sup>2</sup> (12 A/ft <sup>2</sup> ) for 30 min. or equivalent.
	A32	Coating with integral color	Color dependent on alloy and anodic process.
	A33	Coating with impregnated color	15% H <sub>2</sub> SO <sub>4</sub> used at 21°C ± 1°C (70°F ± 2°F) at 129 A/m <sup>2</sup> (12 A/ft <sup>2</sup> ) for 30 min. followed by dyeing with organic or inorganic colors.
	A34	Coating with electrolytically deposited color	Application of the anodic coating followed by electrolytic deposition of inorganic pigment in the coating.
	A3X	Other	To be specified.
Architectural Class I <sup>3</sup> 18 μ (0.7 mil) and thicker coatings	A41	Clear coating	15% H <sub>2</sub> SO <sub>4</sub> used at 21°C ± 1°C (70°F ± 2°F) at 129 A/m <sup>2</sup> (12 A/ft <sup>2</sup> ) for 60 min. or equivalent.
	A42	Coating with integral color	Color dependent on alloy and anodic process.
	A43	Coating with impregnated color	15% H <sub>2</sub> SO <sub>4</sub> used at 21°C ± 1°C (70°F ± 2°F) at 129 A/m <sup>2</sup> (12 A/ft <sup>2</sup> ) for 60 min. followed by dyeing with organic or inorganic colors or equivalent.
	A44	Coating with electrolytically deposited color	Application for the anodic coating followed by electrolytic deposition of inorganic pigment in the coating.
	A4X	Other	To be specified.

1. The complete designation must be preceded by AA – signifying Aluminum Association.
2. Examples of methods of finishing are intended for illustrative purposes only.
3. Aluminum Association Standards for Anodized Architectural Aluminum.
4. One mil equals one one-thousandth of one inch.

Alcoa Designations*	
ALCOA DESIGNATION	FILM THICKNESS <sup>4</sup>
Alumilite 200	minimum .15 mils
Alumilite 201	minimum .2 mils
Alumilite 202	minimum .3 mils
Alumilite 203	minimum .36 mils
Alumilite 204	minimum .4 mils
Alumilite 214	minimum .6 mils