

Technical Information Sheet



UNA-CLAD™ Anodized Aluminum Architectural Sheet & Coil

Item Description

0.032" (.81 mm) , 0.040" (1 mm), 0.050" (1.3 mm) and 0.063" (1.6 mm) gauge

Description

UNA-CLAD Anodized Aluminum Architectural Sheet & Coil consists of tension leveled aluminum sheet conforming to ASTM B209 standards with H34AQ temper and 5005 anodizing quality. The aluminum is finished as a continuous coil, utilizing a two-step electrolytic process. A fade-resistant mineral is electrolytically deposited at the base of the anodized pore. The protective oxide coating is an integral part of the aluminum substrate with the color independent of the anodized film thickness. The resulting anodic film is gem hard with high abrasion resistance. A strippable protection film is applied for protection during fabrication and installation. UNA-CLAD Anodized Aluminum Architectural Sheet & Coil is for general sheet metal use in building applications and can be utilized for fascia panels, soffits, gravel stops, copings, store fronts, and roofing such as flat seam, standing seam, batten seam, and mansards.

Method of Application

1. Install in accordance with recognized sheet metal practices.
2. UNA-CLAD aluminum can be cut, formed, and fastened using conventional hand or power tools.
3. For best results cutting tool edges should be kept sharp, clean, properly dressed, and closely aligned.
4. Fabrication and erection can be accomplished with strippable plastic film in place. Equipment adjustments may need to be made for the film thickness. Film should be removed from areas of concealed or joined pieces.

NOTE: Laser masking is available for laser fabrication. If you require this service, please specify this at time of order entry.

NOTE: Anodized products are batched controlled and could display color variation if mixed.

Storage and Packaging

- Elevate metal sheet and coil should be stored in a well ventilated, dry place where no moisture can contact them. Moisture (from rain, snow, condensation, etc.) trapped between layers of material may cause water stains or white rust, which can affect the service life of the material and will detract from its appearance.

Storage and Packaging Continued

- Storage of end-use materials with protective film applied to the surface should be:
 - Less than six months with masking applied (warehouse storage and outdoor exposure combined).
 - Stored in an enclosed building or holding facility.
 - Wrapped/packaged to prevent exposure to direct UV, water, oils, or other contaminants.
 - Protective film may become brittle with long term UV exposure.
 - Maintained in an environment within a temperature range of 45 to 90 °F (7 to 32 °C) and 20 to 80% relative humidity.
- Maximum 2,000 lb of sheets per pallet

Precautions

- If outdoor storage cannot be avoided, protect the sheet and coil with a ventilated canvas or waterproof paper cover. Do not use plastic, which can cause condensation. Keep the material off the ground in an inclined position with an insulator such as wood.
- Protective film may degrade or become brittle with exposure to direct sunlight. Therefore, it must be removed immediately.
- Product is pre-finished material; care must be exercised during fabrication and erection to avoid surface damage.
- Drastic forming over sharp radii may cause objectionable crazing.
- Attention should be paid to good house-keeping practices.
- Tools must be clean and properly dressed.
- Avoid dragging sheets over surfaces which may scratch or mar the finish.
- For general sheet metal use in building applications.
- Do not cut with power saws or abrasive blades.
- Refer to Safety Data Sheets (SDS) for safety information.

NOTE: Anodized products are batched controlled and could display color variation if mixed.

LEED® Information

Post-Consumer Recycled Content: 12.9 %

Pre-Consumer Recycled Content: 1.6 %

Manufacturing Location: Anoka, MN; Corsicana, TX; Jacksonville, FL; Salt Lake City, UT

NOTE: LEED® is a registered trademark of the U.S. Green Building Council

Product Data	
Property	Value
Finish	Class II - Clear, Dark Bronze and Extra Dark Bronze
Finish Availability	Clear Anodized 0.032, 0.040, 0.050 and 0.063
	Dark Bronze 0.040
	Extra Dark Bronze 0.040



Typical Properties of Base Material	
Property	Value
Standard	ASTM B209, Aluminum Association, Standard for Specification, Sheets and Coils
Base Metal	Aluminum 5005
Minimum Yield	21 KSI (145 MPa)
Co-efficient of Thermal Expansion	12.6 x 10 ⁻⁶ in/in/ °F (22.2 m/m.K x 10 ⁻⁶)
Modules of Elasticity	10.0 x 10 ³ x KSI (68.9 MPa)

Product Size		
Gauge	Weight lb/ft ²	Weight kg/m ²
0.032	0.456	2.20
0.040	0.576	2.75
0.050	0.720	3.50
0.063	0.907	4.40
Gauge	Slit Coil Dimensions	Sheet Dimensions
0.032	4.0" (0.1 m) – 48" (1.2 m)*	48" (1.2 m) x 96" (2.4 m), 120" (3.1 m) & 144" (3.7 m)*
0.040	4.0" (0.1 m) – 48" (1.2 m)*	48" (1.2 m) x 96" (2.4 m), 120" (3.1 m) & 144" (3.7 m)*
0.050	4.0" (0.1 m) – 48" (1.2 m)*	48" (1.2 m) x 96" (2.4 m), 120" (3.1 m) & 144" (3.7 m)*
0.063	4.0" (0.1 m) – 48" (1.2 m)*	48" (1.2 m) x 96" (2.4 m), 120" (3.1 m) & 144" (3.7 m)*

NOTE: * May not be available in all colors, gauges, or widths. Additional lead times may apply. Contact your local Elevate Representative for additional information.

Typical Properties		
Property	Test Method	Typical Performance
Abrasion Resistance	ASTM D 968	1/32" Diameter area: <0.1 mil per 1000 liters
Color Uniformity Corrosion Resistance Seal Quality Thickness	Hunter Lab Tristimulus Colorimeter	No Noticeable color difference edge to edge Neutral Salt; No Pitting Acid Dissolution Weight Loss 1.3 mg/in ² max (20 mg/dm ²)
	ASTM B 117, Hours: 2000	
	ASTM B 680	
	ASTM B 137	Clear: 0.4 mil (10 microns) Colors: 0.25 mil (6 microns)
Weatherability	ASTM G 53; UVCON Hours: 500	Less than 4ΔE Hunter Units, No Objectionable Color Change

NOTE: For standard color selection, consult the current UNA-CLAD Color Selection Guide. Custom color services are available upon request. Consult the current base metal Sheet & Coil TIS for additional information on the base metal and coating. Not all materials and thicknesses are available from all locations

Please contact Holcim Technical Services at 800-428-4511 for further information.

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