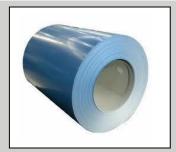


Technical Information Sheet



UNA-CLAD[™] Kynar 500®/Hylar 5000® Pre-Finished 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 PVDF Coated Aluminum Architectural Sheet & Coil is aluminum sheet conforming to ASTM B209 standards with H14 temper that is primed and coated on one side with UNA-CLAD full strength Kynar 500/Hylar 5000 (contains a minimum of 70% Kynar/Hylar polyvinylidene fluoride [PVDF] resins) premium fluoropolymer coating system of 1.0 (+/-0.1) mil total dry film thickness. For additional protection a wash coat of 0.3-0.4 mil dry film thickness is applied to the reverse side. An optional strippable protection film is applied for protection during fabrication and installation. UNA-CLAD PVDF Coated Aluminum Architectural Sheet & Coil is for general sheet metal use in building applications, including fascia, soffits, gravel stops, copings, store fronts, and roofing.

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: Metallics 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.
- If outdoor storage cannot be avoided, protect the panels 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.
 - 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.
 - $\circ~$ 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

September 28, 2022

Sales: (800) 428-4442 Technical (800) 428-4511





Precautions

- Protective film may degrade or become brittle with exposure to direct sunlight. Therefore, it must be removed immediately.
 - The performance of this material in the field depends substantially on the integrity of the paint film and on the underlying coating of zinc being intact. Therefore, this UNA-CLAD product should not be used in areas of high abrasion or where it is subject to mechanical damage.
- Product is pre-finished material; care must be exercised during fabrication and erection to avoid surface damage.
- Elevate recommends a minimum bend radius of 2T for .032" (.81 mm) and .040" (1 mm) materials and a 3T bend radius for any material .050" (1.3 mm) or greater. Anything less than these bend radiuses can cause crazing to the material.
- 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: Vintage, Print Colors and Metallics are batched controlled and could display color variation if mixed.

LEED® Information

Post-Consumer Recycled Content:50Pre-Consumer Recycled Content:18 -Kynar 500/Hylar 5000 Paint Finish:AANManufacturing Location:Ano

50 - 65 % 18 - 38 % AAMA 621-02 Anoka, MN



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

Product Data		
Property	Value	
Color	Standard Colors and Premium Print Colors available; See current UNA-CLAD color chart	
Finish	Extra Smooth Matte, Low to Medium Gloss	
Optional Finish	Extra Low Gloss*, High Gloss* and Stucco Embossed (Mechanical Finish)*	

Product Siz	ze			
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 Regional Technical Coordinator for additional information.				





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Property	Value
Standard	ASTM B209, Aluminum Association, Standard for Specification, Sheets and Coils
Base Metal	Aluminum 3105
Minimum Yield	33 to 45 KSI (227 to 310 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)

Typical Properties of Fluropolymer Coating					
Property Test Method		Typical Performance			
Abrasion Resistance	ASTM D 968, Method A	Co-Efficient of sand abrasion 65±10			
	ASTM D 4587 Condition B or ASTM G 23 Method 1 or 2, Type EH apparatus Hours: 5000				
	ASTM D 4587 Condition B or ASTM G 53 Method 1 or 2, Type EH apparatus or ASTM G 154 Hours: 5000 ASTM Color: <u><</u> △E Color change per ASTM D 2				
Accelerated Weathering	ASTM D 4587 Condition B or ASTM G 23 Method 1 or 2, Type EH apparatus or ASTM G 151				
	ASTM D 3361 Hours: 1000	Acceptable – No cracking, peeling, blistering, loss of adhesion of the protective coating, or corrosion of the base metal Chalk: Rating of 8 or better per ASTM D 4214			
Adhesion	ASTM D 3359, Method B	No loss of adhesion			
Chalk Resistance	ASTM D 659	No Chalk; Rating 9-10			
Chemical/Acid Pollution Resistance	ASTM D 1308 Procedure 7.2	Pass; No color change			
Formability	NCCA 4.2.8	2T to 4T No loss of adhesion			
Gloss	ASTM D 523	25-35 at 60 degrees			

*Kynar 500 is a registered trademark of Arkema, Inc.

*Hylar 5000 is a registered trademark of Solvay Solexis, Inc.

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.

This sheet is meant to highlight Elevate products and specifications and is subject to change without notice. Holcim takes responsibility for furnishing quality materials that meet published Elevate product specifications or other technical documents, subject to normal manufacturing tolerances. Neither Holcim nor its representatives practice architecture. Holcim offers no opinion on and expressly refuses any responsibility for the soundness of any structure. Holcim accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Holcim representative is authorized to vary this disclaimer.



Firestone, the brand of premier roofing, wall, and lining systems you know and trust, will be coming to you under a new name: Elevate. During our transition, products carrying the brand name **Firestone** will change to **Elevate** on product labels and packaging, Technical Information Sheets, and elsewhere. Only the brand name is changing. Our products remain the same.

For further information on our brand transition to Elevate, scan the code below with your smartphone, or visit our website: www.holcimelevate.com

