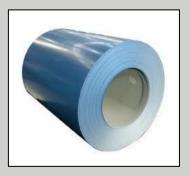


Technical Information Sheet



UNA-CLAD™ Kynar 500®/Hylar 5000® Pre-Finished Galvanized Steel Architectural Sheet & Coil

Item Description

22, 24, and 26-Gauge

Description

UNA-CLAD PVDF Coated Galvanized Steel Architectural Sheet & Coil is AISI-G90 extra smooth, minimum spangle, tension leveled, hot-dipped galvanized steel that is primed and coated on one side with UNA-CLAD full strength Hylar 5000 / Kynar 500 (contains a minimum of 70% Hylar/Kynar polyvinylidene fluoride (PVDF) resins) premium fluoropolymer coating system of 1.0 (±0.1) mil total dry film thickness. This coating is AAMA 621-02 compliant. 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 Galvanized Steel Architectural Sheet & Coil is for general sheet metal use in building applications and can be utilized for fascia panels, soffits, gravel stops, copings, 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 steel 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. Film should be removed from areas of concealed or joined pieces.

NOTE: Vintage, Print Colors and Metallics are batched controlled and could display color variation if mixed.

Storage and Packaging

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- 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.

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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).
 - o Stored in an enclosed building or holding facility.
 - Wrapped/packaged to prevent exposure to direct UV, water, oils, or other contaminants.
 - o 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.
 - o Maximum 2,000 lb of sheets per pallet.

Precautions

- Protective film may degrade or become brittle with exposure to direct sunlight. Therefore, it must be removed immediately.
 - o 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. Anything less than a 2T bend radius 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: 79 % Pre-Consumer Recycled Content: 7 %

Kynar 500/Hylar 5000 Paint Finish: AAMA 621-02 Manufacturing Locations: Anoka, MN Corsicana, TX



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)*	
Wash Coat	Polyester	





Product Size					
Gauge	Weight lb/ft²	Weight kg/m²			
26 ga	0.775	3.78			
24 ga	1.000	4.89			
22 ga	1.406	6.87			
Gauge	Slit Coil Dimensions	Sheet Dimensions			
26 ga	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)*			
24 ga	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)*			
22 ga	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.					

Typical Properties of Base Material			
Property	Value		
Base Metal	AISI G90 – Hot dipped galvanized steel sheet, commercial weight, meeting ASTM A653/A653M-10 CS Type B for Zinc coated (galvanized) steel sheets & coil		
Minimum Yield	33 to 45 KSI (227 to 310 MPa)		
Co-efficient of Thermal Expansion	06.7×10^{-6} in/in/F° (13.9 m/m.K x 10^{-6})		
Modules of Elasticity	29.0 x 10 ⁶ x KSI (200 GPa)		
Specification	ASTM E111-4		

Property	Test Method	Typical Performance
Industry Specifications Compliance	AAMA 2605-17	Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels
Abrasion Resistance	ASTM D 968, Method A	Coefficient of sand abrasion 65±10 Liters
Accelerated Weathering	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 G154 Hours: 5000 ASTM D 4587 Condition B or ASTM G 23 Method 1 or 2, type EH apparatus or ASTM G151 Hours: 2000 ASTM D 3361 Hours: 1000	Chalk: Rating of 8 or better per ASTM D 4214 Color: ≤2∆E color change per ASTM D 2244 Chalk: Rating of 8 or better per ASTM D 4214 Color: ≤2∆E color change per ASTM D 2244 Chalk: Rating of 8 or better per ASTM D 4214 Color: ≤2∆E color change per ASTM D 2244 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, Method A (ASTM D 659) Color: <5∆E Hunter Units per ASTM D 2244
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



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Typical Properties of Fluropolymer Coating Continued				
Property	Test Method	Typical Performance		
Cyclic Salt Fog	ASTM D 5894 Hours: 3000	Scribe: Rating of 8, 1/32" creepage from scribe per ASTM D 1654, procedure A Field: Rating of 10, no blistering per ASTM D 1654, Procedure B		
Formability	ASTM D 522	No cracking, no loss of adhesion to the point of metal Rupture		
Hardness	ASTM D 3363	HB to 2H		
Specular Gloss	ASTM D 523	25-35 at 60 degrees		
Humidity Resistance	ASTM D 2247 Hours: 2000 ASTM D 1735 Hours: 1000	Rating of 10; No blistering No blistering, no loss of adhesion		
Impact Resistance	ASTM D 2794	Reverse & Direct Impact: No cracking & no loss of adhesion		
Salt Spray Resistance	ASTM B 117 Hours: 2000	Scribe: Rating of 7, 1/16" creepage Field: Rating of 10		
Tunnel Test	ASTM E84	Class A Coating		
UV Exposure	ASTM G 154 Hours: 2016	Chalk: Rating of 8 or better per ASTM D 4214, Method A (ASTM D 659) Color: <5∆E Hunter Units per ASTM D 2244		
Wet Adhesion	Water Immersion Hours: 1500	No loss of adhesion		

^{*}Kynar 500 is a registered trademark of Arkema, 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.

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