

TECHNICAL INFORMATION SHEET



COATED METALS GROUP

Kynar 500/Hylar 5000 Pre-Finished Galvanized Steel Architectural Sheet & Coil

DESCRIPTION:

CMG Ultra-Clad PVDF Coated Steel Architectural Sheet & Coil is extra smooth, tension leveled, hot-dipped G90 coated steel that is primed and coated on one side with Ultra-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. For additional protection a wash coat of .03 - .04 mil dry film thickness is applied to the reverse side. An optional strippable protection film is applied for protection during fabrication and installation. Coated Metals Group Ultra-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. CMG Ultra-Clad 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.

STORAGE AND PACKAGING:

1. CMG metal sheet and coil should be stored in a well ventilated, dry place where no moisture can contact the sheet. 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.
2. 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.
3. Maximum 2,000 lbs of sheets per pallet.

PRECAUTIONS & LIMITATIONS:

1. Protective film may degrade or become brittle with exposure to direct sunlight.
2. The performance of this material in the field depends substantially on the integrity of the paint film and on the underlying zinc-aluminum coating being intact. Therefore, this Ultra-Clad product should not be used in areas of high abrasion or where it is subject to mechanical damage.
3. Product is pre-finished material; care must be exercised during fabrication and erection to avoid surface damage.
4. Attention should be paid to good house-keeping practices.
5. Tools must be clean and properly dressed.
6. Avoid dragging sheets over surfaces which may scratch or mar the finish.
7. For general sheet metal use in building applications.
8. Do not use with power saws or abrasive blade.

PRODUCT DATA

Color: 32 standard colors; see current Ultra-Clad Color Chart
Finish: Extra Smooth Matte - Low to Medium Gloss
Optional Finish: Inquire

Wash Coat: Polyester

Weight:

<u>Gauge:</u>	<u>lb/SF:</u>	
22ga	1.25	.0285min - .0313max
24ga	1.00	.0225min - .0254max
26ga	0.75	.0172min - .0194max

Dimensions:

Gauge In:	Slit Coil:	Sheet
22, 24, 26ga	4" - 48" (10.16cm - 121.92cm)	48" x 96", 120, & 144"* (1.2m x 2.4, 3.1, & 3.7m)

Physical Properties of Fluoropolymer Coating:

<u>Property</u>	<u>Test Method</u>	<u>Typical</u>
Abrasion Resistance	ASTM D968	Coefficient of sand abrasion 65±10 liters
Accelerated Weathering	ASTM D4587 Condition B or ASTM G23, Method 1 or 2, Type EH apparatus or ASTM G151 for 5000 hours exposure ASTM D4587 Condition B or ASTM G53, Method 1 or 2, Type EH apparatus or ASTM G154 for 5000 hours exposure ASTM D4587, Condition B or ASTM G23, Method 1 or 2, Type EH apparatus or ASTM G151 for 2000 hours exposure	<u>Chalk:</u> rating of 8 or better per ASTM D4214 method A (ASTM D659) <u>Color:</u> <2ΔE Hunter units per ASTM D2244, No loss of adhesion <u>Chalk:</u> rating of 8 or better per ASTM D4214 method A (ASTM D659) <u>Color:</u> <2ΔE Hunter units per ASTM D2244, No loss of adhesion <u>Chalk:</u> rating of 8 or better per ASTM D4214 method A (ASTM D659) <u>Color:</u> <2ΔE Hunter units per ASTM D2244, No loss of adhesion

*May not be available in all colors, gauges, or widths.

Additional lead times may apply. Contact Coated Metals Group for additional information

Compliance:

Kynar 500/Hylar 500 Paint Finish: AAMA 621-02

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PRODUCT DATA (cont.)

Adhesion	ASTM D3359	No adhesion loss
Chalk Resistance	ASTM D4214 Method A and ASTM D659	Maximum Chalk rating of B
Chemical/Acid Pollution Resistance	ASTM D1308	20% sulfuric acid, 18 hours No effect 10% muriatic acid 15 minutes No effect
Cyclic Salt Fog	ASTM B5894	2016 hours Passess Scribe: Rating of 8 (1/8" creepage) per ASTM D1654 procedure A Field: rating of 10 (no blistering) per ASTM D1654 procedure B
Formability	ASTM D522 ASTM D4145	180° bend around 1/8" mandrel no cracking No adhesion loss 1-2T bend
Specular Gloss	ASTM D523 Measured at 60°	25-35 at 60 degrees
Hardness	ASTM D3363	HB-2H eagle turquoise
Humidity Resistance	ASTM D2247	Rating of 10; no blistering, no loss of adhesion
Impact Resistance	ASTM D2794	Reverse and Direct Impact no cracing, no loss of adhesion
Salt Spray Resistance	ASTM B117 5% Salt Fog @95°F	1000 hours exposure Scribe: Rating of 7 (1/16" creepage) per ASTM D1654 procedure A Field: rating of 10 (no blistering) per ASTM D1654 procedure B

PRODUCT DATA (cont.)

Tunnel Test	ASTM E84	Class A coating
UV Exposure	ASTM D2244	<u>Chalk</u> : rating of 8 or better per ASTM D4214, method A (ASTM D659) Color: <5ΔE Hunter units per ASTM D2244; no loss of adhesion
Wet Adhesion	ASTM D	1500 hours of water immersion, no loss of adhesion, no blistering

Physical Properties of Base Metal:

Base Metal:	G90 coated hot-dipped Galvanized steel sheet; commercial weight, meeting ASTM A 653 CS Type B for hot-dipped Galvanized coatco steel sheets & coil
Minimum Yield:	33 to 50 KSI (227 to 310 MPa)
Coefficient of Thermal Expansion:	06.7 x 10 ⁻⁶ in/in/F° (13.9m/m.K x 10 ⁻⁶)
Modules of Elasticity:	29.0 x 10 ⁶ x KSI (200 GPa)
Specification:	ASTM E111-04

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