

Kynar 500[®] / Hylar 5000[®] Pre-Finished Galvalume[®] Sheet & Coil



Fortified Metals
1420 Markum Ranch Rd
Fort Worth, TX 76126
(888) 3-FORTIFIED
www.fortifiedmetals.com

TECHNICAL INFORMATION SHEET

MATERIAL THICKNESS: 22, 24, and 26 Gauge

DESCRIPTION

Fortified Metals PVDF (polyvinylidene fluoride) Coated Galvalume[®] Steel Architectural Sheet & Coil is extra smooth, hot-dipped 55% Al-Zn coated steel that is primed and coated with a premium Fluoropon Coating, a fluoropolymer formulation containing 70% PVDF resins known as Kynar 500[®] and/or Hylar5000[®] on one side. A wash coat is applied to the reverse side for added protection. An optional strippable protection film is applied for protection during fabrication and installation. Fortified Metals Pre-Finished Galvalume Steel Architectural Sheet & Coil can be used in all your building envelope needs.

APPLICATION METHODS

- Install in accordance with recognized sheet metal practices.
- Fortified Metals sheets can be cut, formed, and fastened using hand or power tools.
- Fabrication and installation can be accomplished with strippable plastic film in place. Film should be removed from areas of covered or merging pieces

STORAGE

- Fortified Metals 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 rust, which can affect the service life of the material and will diminish from its appearance.
- If outdoor storage cannot be avoided, protect the sheet and coil with a ventilated canvas or waterproof covering. Do not use plastic, which can cause condensation. Keep the material off the ground in an inclined position.
- Maximum 2,000 lbs. of sheets per pallet.
- Maximum 3,000 lbs. of slit coil per pallet.

PREVENTIVE MEASURES

- Protective film may degrade or become brittle with exposure to direct sunlight. Therefore, it must be removed immediately.
- Care must be exercised during fabrication and installation to avoid surface damage.
- Avoid dragging sheets over surfaces which may scratch the finish.
- The performance of this material in the field depends substantially on the integrity of the zinc-aluminum coating being intact. Therefore, this product should not be used in areas of high abrasion or where it is subject to mechanical damage.
- Fortified Metals recommends a minimum bend radius of 3T. Anything less than a 3T bend radius can cause crazing to the material.
- Tools must be clean and free of foreign materials.
- Do not cut with power saws or abrasive blades.
- Metallic and custom colors are batch controlled. Combining different batches could introduce color variation.

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PRODUCT PROPERTIES	
Property	Value
Base Metal	AZ55 – Hot dipped Galvalume® (55% Aluminum and 43+% zinc) steel sheet, commercial weight, meeting ASTM A792/A792M
Minimum Yield	50 KSI
Coefficient of Thermal Expansion	06.7×10^{-6} in/in/ °F ($13.9 \text{ m/m.K} \times 10^{-6}$)
Modules of Elasticity	29.0×10^6 x KSI (200 GPa)
Specification	ASTM E111-04

PRODUCT INFORMATION			
Property	Value		
Color	Standard and premium colors available; See current Fortified Metals Color charts		
Finish	Extra Smooth Matte, Low to medium gloss		
Optional Finishes	Extra low gloss, High gloss, and Stucco embossed (Mechanical Finish)		
Wash Coat	Polyester		
Gauge:	Weight	Slit Coil Size	Flat Sheet Dimension
22 ga.	1.183 lbs./ft ² , 4.89 kg/M ²	4.00" (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.	1.000 lbs./ft ² , 4.89 kg/M ²	4.00" (0.1 m) - 48"(1.2 m)	48" (1.2 m) x 96" (2.4 m), 120" (3.1 m) & 144" (3.7 m)
26 ga.	0.765 lbs./ft ² , 4.89 kg/M ²	4.00" (0.1 m) - 48"(1.2 m)	48" (1.2 m) x 96" (2.4 m), 120" (3.1 m) & 144" (3.7 m)

LEED® INFORMATION:

Pre-Consumer Recycled Content: 6%
Post-Consumer Recycled Content: 80%
Kynar 500/Hylar 5000 Paint Finish: AAMA 621
Manufacturing Location: Fort Worth, TX

LEED® is a registered trademark of the U.S. Green Building Council. Galvalume® is a registered trademark of Bieci International Inc., Kynar 500® is a registered trademark of Arkema Inc. Hylar® 5000 is a registered trademark of Solvay Solexis Inc.

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TYPICAL PROPERTIES OF FLUOROPON COATING		
Physical Test	ASTM Test Method	Test Results
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: ≤2ΔE color change per ASTM D 2244 Chalk: Rating of 8 or better per ASTM D 4214 Color: ≤2ΔE color change per ASTM D 2244 Chalk: Rating of 8 or better per ASTM D 4214 Color: ≤2ΔE 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: <5ΔE Hunter Units Per ASTM D2244
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
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
Specular Gloss	ASTM D 523	25-35 at 60 degrees
Hardness	ASTM D 3363	HB to 2H
Humidity Resistance	ASTM D 2247 Hours: 2000 ASTM D 1735 Hours: 1000	Rating of 10; 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: <5ΔE Hunter Units Per ASTM D2244
Wet Adhesion	Water Immersion Hours: 1500	No loss of adhesion

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