

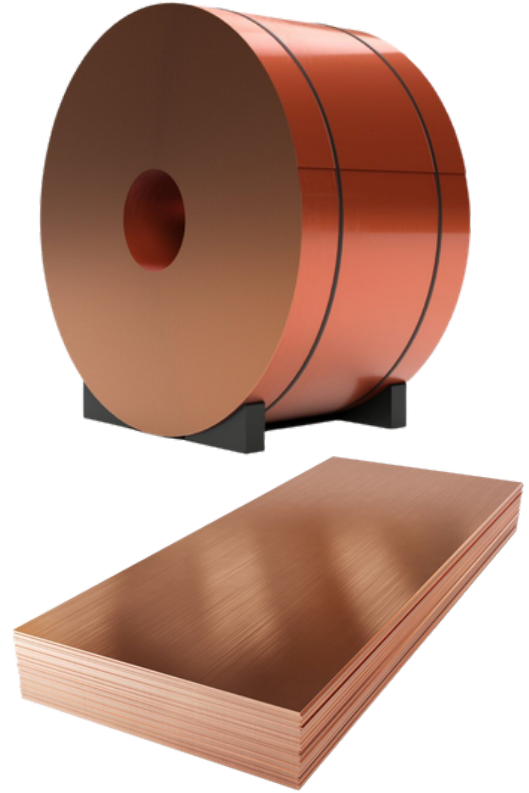
Specification Data Metal Coils & Flat Sheets



This specification data sheet is supplied by MetalWyze as a point of reference for our Pre-Finished Steel and Aluminum Sheet and Coil.

MetalWyze offers two types of pre-painted substrates:

- Our **steel** products are made of Galvalume®, an Aluminum / Zinc coated carbon steel that is extra smooth, minimum spangle, tension leveled.
- Our **aluminum** products are made of prime grade aluminum, with an alloy of 3003 or 3105 and a temper of H14 or H24 depending on the application.
- MetalWyze uses full strength Hylar 5000™ / Kynar 500® (contains a minimum of 70% Hylar / Kynar polyvinylidene fluoride (PVDF) resins). Fluoropolymer coating system consists of a 1.0 (±0.1) mil total dry film thickness on the topside (0.2 mils to 0.3 mils primer and 0.7 mils to 0.8 mils topcoat) and our 0.5 dry film thickness polyester stenciled backer to complete traceability.



MetalWyze PVDF Coated Galvalume® Steel and Aluminum 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 corrugated panels.

Manufacturer

MetalWyze provides a full range of superior-quality engineered perimeter edge metal systems and custom fabrication services for commercial, governmental, industrial, historical and architectural customers worldwide. All products are distributed from our Newburgh, NY Location.



Methods of Application

- Install in accordance with recognized sheet metal practices and MetalWyze details.
- MetalWyze products can be cut, formed and fastened using conventional hand, sheet metal tools and power tools.
- For best results, cutting tools should be kept sharp, clean and in good working condition.
- If the use of strippable film is used, all film should be removed from areas of concealed or joined pieces prior to installation. Film must be removed immediately following installation to prevent issue.
- Be aware of how tight the radius of your bends are. 1 1/64" radius is recommended when fabricating hemmed components.

Application Characteristics

Film Thickness:

- **Topside finish:** primer (dry) 0.20–0.30 mils; topcoat (dry) 0.70–0.80 mils.
- **Reverse side finish:** primer (dry) 0.15–0.25 mils; pigmented backer (dry) 0.30–0.40 mils.
- **Total system DFT:** 0.90–1.10 mils.

Topside Color: Controlled to the Master Standard by an approved Color Difference Meter or Spectrophotometer, and by visual match under daylight and horizon light of a Macbeth Daylight Booth per ASTM D 1729.

Surface Finish

- PVDF (Kynar500® or Hylar5000®)
- MetalWyze Standard and Premium Colors available; Custom Colors are available upon request.

Physical Properties

Property	Requirement	Standard
Specular Gloss	10%–35% at a glossmeter angle of 60° or 85° (low gloss is 10% @ 85°)	ASTM D 523
Pencil Hardness	Minimum pencil hardness of "HB"	ASTM D 3363
Solvent Resistance	Passes minimum 100 double rubs of a MEK-soaked cloth	ASTM D 5402
Cross-Hatch Adhesion	No paint removal with Scotch #610 tape after cross-scoring with eleven horizontal and eleven vertical lines 1 mm apart	ASTM D 3359
Impact Resistance	No visible paint removal with Scotch #610 tape after direct and reverse impact of 80 in-lbs, using 5/8" steel ball on a Gardner Impact Tester	ASTM D 2794
T-Bend Adhesion	No loss of adhesion when taped with Scotch #610 tape when subjected to a 2T-bend	ASTM D 4145

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Product Details

Material	Finishes & Availability
Aluminum	Kynar Coated, Mill Finish, Anodized, and SMP finish Available in Gauges from .032" –.063"
Galvalume	Kynar Coated available in 24ga and 22ga.
Galvanized	Available in 16ga-26ga
Stainless Steel	Available in 16ga-26ga
Copper	16oz-20oz (Lead Coated, Zinc, Coated, and Bare)
Zinc	0.7mm - 1.2mm in a variety of finishes
Speciality items available on a "per order" basis.	



Recycled Content

- 6.6% post-industrial
- 24.6% post-consumer.

Our products contribute to LEED credit MR 4.1.

Product Specifications & Options

Attribute	Specification
Aluminum Alloy	3003 & 3015
Aluminum Tempers	H14 or H24
Aluminum	ASTM B209
Galvalume	ASTM A792-96
PVDF Coating	70% PVDF Resin
PVDF Thickness	1.0 mil total dry film thickness
PVDF Warranty	35 years
*Please request information for copper, stainless, and zinc specifications	

Option	Range
Coil Widths	Width: 1"–48" (up to 60" upon request) Length: Maximum 11,000 lbs per coil ID: 20.5"
Aluminum Sheet	Width: 40.5" & 48" standard (1"–48" custom) Length: Up to 26ft
Galvalume Sheet	Width: 40.375" & 48.375" (1"–48" custom) Length: Up to 26ft
Copper Sheet	Width: 36" & 48" standard (1"–48" custom) Length: Up to 26ft
Stainless Sheet	Width: 48" standard Length: Up to 26ft
Zinc Sheet	Width: 39.4" (1"–39.4" custom) Length: Up to 26ft

Performance & Testing Data

Test	Result	Standard
Humidity Resistance	No blistering, cracking, peeling, loss of gloss or softening after 2,000 hrs (HDG, Galvalume) or 3,000 hrs (aluminum) at 100% humidity, 100°F ±5°F	ASTM D 2247
Cleveland Condensing	No blistering, rusting or loss of adhesion after 1,500 hrs (Galvalume) or 3,000 hrs (aluminum) at 120°F	ASTM D 4585
Water Immersion	No loss of gloss, blistering, cracking or color change after 500 hrs immersed in distilled water at 100°F	ASTM D 870
Salt Spray Resistance	Diagonally scored samples, 5% neutral salt spray for 1,000 hrs (HDG, Galvalume) or 3,000 hrs (aluminum): no blistering, no loss of adhesion, scribe creep ≤ 1/8" (taped 1 hr after removal, Scotch #610)	ASTM B 117
Chemical Resistance	No significant color change after 24 hrs exposure to 10% solutions of hydrochloric and sulfuric acids (spot test, Proc. 7.2)	ASTM D 1308
Kesternich Test	No significant color change after 10 cycles in an SO ₂ chamber	ASTM G 87
Accelerated Weathering	5 Hunter ΔE maximum color change and at least #8 chalk rating after 10,000 hrs exposure, UVA-340 bulbs	ASTM G 151 / G 154
Exterior Weathering	Florida exposure (45° South): 5 Hunter ΔE max color change (D 2244) and at least #8 chalk rating (D 4214, Method A) after 20 years' real-time exposure	ASTM D 2244 / D 4214
Abrasion Resistance	TRINAR passes 65 ±5 liters minimum of falling sand (Method A)	ASTM D 968
Flame Spread Rating	TRINAR displays a flame spread classification of A (Class 1)	ASTM E 84
Aluminum & Aluminum Alloy	Standard Specification for Aluminum & Aluminum-Alloy Sheet & Plate.	ASTM B 209
Steel Sheets	Standard Specification for Steel Sheet, 50% or 55% Aluminum-Zinc Alloy Coated by a hot dipping process.	ASTM A792-96

This sheet is meant to highlight MetalWyze products and specifications. Information is subject to change without notice. MetalWyze takes responsibility for furnishing quality materials, which meet MetalWyze product specification. If questions arise as to the soundness of a structure, or its ability to support a planned installation properly, the Owner should obtain opinions of competent structural engineers before proceeding. MetalWyze accepts no liability for any structural failure or for resultant damages, and no MetalWyze Representative is authorized to vary this disclaimer.