



METALALLIANCE

A Value Added Supplier of Metals



**TECHNICAL
SPECIFICATIONS**

ARCHITECTURAL METAL COIL AND FLATS

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Architectural Metal Coil and Flats



FLORIDA 2120 SW Poma Drive, Palm City, FL 34990

MARYLAND 2500-B Broening Highway, Baltimore, MD 21224

metalalliance.com 844.638.2548

PRODUCT DESCRIPTION

Steel, aluminum and copper coil and flats for use in building applications including metal roofing and wall panels, fascia panels, soffits, gravel stops, copings, gutters and other products.

Base Metal:

- ▶ **GALVALUME® AZ55 (Acrylic-coated)**
Al-Zn coated carbon steel
- ▶ **GALVALUME® AZ50 (Painted)**
Al-Zn coated carbon steel
- ▶ **MAGNAGUARD™ ZM150 (Painted)**
Al-Zn-Mg coated carbon steel
- ▶ **PRIME GRADE ALUMINUM**
- ▶ **COPPER**

Coatings:

- ▶ **FLUROPON® AND FLUROTHANE® COASTAL**
Premium coatings using 70% Kynar® 500-based polyvinylidene difluoride (PVDF) in over 30 colors.
- ▶ **WEATHER XL™** is a specially formulated silicone-modified polyester (SMP) coating in nearly 20 colors.
- ▶ **TEDLAR® PVF FILM**, a premium 100% polyvinyl fluoride (PVF) finish available in our most popular colors.

SHERWIN-WILLIAMS
Coil Coatings

DuPont™
Tedlar® PVF Film



Protective Film:

Upon request, a removable protective film to protect finished surface during shipping, handling, and fabrication is available. Should be removed after installation.

TECHNICAL DATA PHYSICAL PROPERTIES

Metals	Galvalume® 55% Al-Zn Alloy Coated Steel			Aluminum Al/Al Alloy Sheet		Copper 99% Copper Sheet		MagnaGuard™ 55% Zn-Al-Mg Alloy
ASTM Standard	A792			B209		B370		A1046
Thickness	24ga ¹	26ga ¹		.032"	.040"	16oz.	20oz.	24ga
Grade	50	50	80	3105	3003	H00		50 80, CS-B
Minimum Yield	50 ksi	50 ksi	80 ksi	H24 Temper	H14 Temper	32-40 ksi		50 ksi
Dimension (Coil)	20", 24", 27-1/2", 39-9/16"		20", 24", 27-1/2", 39-9/16", 41-5/16", 43"	16", 20", 24"		20", 24"		20", 24"
Dimension (Flat)	4'x10'			4'x10'		3'x10'		4'x10'
Coatings Available	Acrylic-Coated, Fluropon, WeatherXL			Fluropon, Flurothane Coastal, Tedlar		N/A		Fluropon

¹22ga and 29ga also available.

Coatings	Fluropon® 70% Kynar 500 PVDF			Flurothane® Coastal 70% Kynar 500 PVDF & Urethane			WeatherXL™ 50% SMP	Tedlar® 100% PVF Film
Coating Type	2-Layer			2-Layer			2-Layer	1-Layer
	DFT Dry Film Thickness	Total DFT		DFT Dry Film Thickness	Total DFT		DFT Dry Film Thickness	Total DFT
Primer/ Topcoat	0.2- 0.3 mils	0.7- 0.8 mils	0.9- 1.1 mils	0.7- 0.8 mils	0.1- 0.2 mils	1.7- 2.0 mils	0.2- 0.3 mils	0.7- 0.8 mils
Primer/ Backer	0.2- 0.3 mils	0.3- 0.4 mils		0.4- 0.3 mils	0.3- 0.4 mils		0.2- 0.3 mils	0.2- 0.3 mils
Colors	33 Colors Stocked, Custom Available			33 Colors, Custom Available			18 Colors Stocked, Custom Available	6 Colors Additional Available
Specular Gloss 60°	20 - 35			5 - 35			20 - 80	5 - 8°
Available On	Aluminum, Galvalume, MagnaGuard			Aluminum			Galvalume	Aluminum ²

²Specular Gloss 85°: 15-30. ³Tedlar also available on steel and other substrates for specialty applications.

TECHNICAL DATA APPLICABLE STANDARDS

	Description	Standard
Substrates	Galvalume® AZ50/AZ55	ASTM A792
	MagnaGuard™ ZM150	ASTM A1046
	Aluminum	ASTM B209
	Copper	ASTM B370
Coatings	Chemical Resistance	ASTM D1308
	Falling Sand Abrasion	ASTM D968
	Film Adhesion	ASTM D3359
	Graffiti Resistance	ASTM D6578/D6578M
	Humidity Resistance	ASTM D2247
	Impact Resistance	ASTM D274
	Pencil Hardness	ASTM D3363
	Salt Spray	ASTM B117
	Surface Burning	ASTM E84
	Sustainability	ASTM E1980-11
	T-Bends	ASTM D4145
	Coatings - South Florida Erosion	Chalk Resistance
Color Change		ASTM D2244
Erosion Resistance		ASTM D662
Film Integrity		ASTM G7



SUSTAINABILITY

All of our metal products and coatings are:

- ✓ 100% recyclable and energy efficient
- ✓ Can reduce greenhouse emissions
- ✓ Eligible for up to two LEED credits† for Heat Island Reduction based on color SRI



INSTALLATION

- ▶ Install in accordance with Metal Alliance recommended details, recognized standard building practices and applicable building codes.
- ▶ Our products can be cut, formed and fastened using conventional hand tools, sheet metal tools and power tools. For best results cutting tools should be kept sharp, clean and in good working condition.
- ▶ If strippable film is applied to product, all film should be removed, including from areas of concealed or joined pieces.
- ▶ A radius of 11/64" is recommended when fabricating hemmed components. Stay cognizant of radius tightness.

WARRANTIES



Metals

▶ AZ55 GALVALUME

(Acrylic-Coated)

Up to 25 years, 6 months limited warranty† against rupture, structural failure or perforation as a result of corrosion caused by exposure to normal atmospheric conditions.

▶ **AZ50 GALVALUME (Painted)** Up to 20 years limited warranty† against rupture, structural failure or perforation from corrosion caused by exposure to normal atmospheric conditions.

▶ **ZM150 MAGNAGUARD (Painted)** Up to 20 years limited warranty† against rupture, structural failure or perforation from corrosion caused by exposure to normal atmospheric conditions.

▶ **ALUMINUM (Painted)** Up to 20 years limited warranty† against rupture, structural failure or perforation as a result of corrosion caused by exposure to normal atmospheric conditions.

▶ **COPPER** Up to 50 years limited warranty† against leaking due to defective base metal.

Finishes

▶ FLUROPON®, FLUROTHANE® COASTAL & WEATHERXL™

Up to 40 years limited warranty† against chipping, cracking, peeling, flaking or checking and up to 30 years limited warranty against chalking and fading.

▶ TEDLAR®

Up to 50 years limited warranty† against chipping, cracking, peeling, flaking or checking and up to 40 years limited warranty against chalking and fading.

Weathertight

Up to 20 years limited warranty† against water leaks; available to certified installers.



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