METALALLIANCE

A Value Added Supplier of Metals



TECHNICAL SPECIFICATIONS

ARCHITECTURAL METAL COIL AND FLATS

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Architectural Metal Coil and Flats

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2120 SW Poma Drive, Palm City, FL 34990
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metalalliance.com

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® AZ60 (COASTALUME™)
Al-Zn coated carbon steel

GALVALUME® AZ55 (Acrylic-coated)
Al-Zn coated carbon steel

GALVALUME® AZ50 (Painted)
Al-Zn coated carbon steel

MAGNAGAURD™ ZM150
Al-Zn-Mg coated carbon steel

PRIME GRADE ALUMINUM
Al-Al alloy

COPPER
99% copper sheet

PROTECTIVE METAL COATINGS

FLUROPON® with KYNAR500®
Premium 70% polyvinylidene difluoride (PVDF) finish in over 30 colors.

WEATHER XL™
Specially formulated silicone-modified polyester (SMP) coating in nearly 20 colors.

ILLUMIPON™
Best-in-class FEVE coating available in our most requested colors.

SHERWIN-WILLIAMS. Coil Coatings

TEDLAR® PVF FILM
Premium 100% polyvinyl fluoride (PVF) finish available in our most popular colors.

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.

PHYSICAL PROPERTIES

METALS	Galvalume 60%, 55% & 50% Al-Zn Alloy Coated Steel			Aluminum Al/Al Alloy Sheet		Copper 99% Copper Sheet		MagnaGuard 55% Zn-Al-Mg Alloy Coated Steel
ASTM Standard	A792			B209		B370		A1046
Thickness	24ga[1]	26ga[1]		.032"	.040"	16oz.	20oz.	24ga
Grade	50	50	80	3105 or 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", 48"	20", 24", 27-1/2", 41-9/16", 43", 48"		16", 20", 24"		20", 24"		20", 24"
	Please inquire about custom processing services.							
Dimension (Flat)	4'x10'			4'x10'		3'x10'		4'x10'
Coatings Available	Acrylic-Coated, Fluropon, Tedlar[2] Illumipon, WeatherXL			Fluropon, Illumipon, Tedlar		N/A		Fluropon

[1] 22ga and 29ga also available. [2] Coastalume™.

COATINGS	Fluropon 70% PVDF with Kynar 500				Illumipon FEVE	WeatherXL SMP				Tedlar 100% PVF Film
Coating System	2-Layer					2-Layer				1-Layer
	Primer	Topcoat	Backer	Total DFT		Primer	Topcoat	Backer	Total DFT	Total DFT
	0.2-0.3 mils	0.7-0.8 mils	0.3-0.4 mils	1.2 - 1.5 mils		0.2-0.3 mils	0.7-0.8 mils	0.2-0.3 mils	1.1-1.4 mils	1.5 mils
Specular Gloss 60°	20 - 35				5 - 80	20 - 80				5 - 8[3]
Colors	37 Colors, Custom Available				Select Colors	17 Colors, Custom Available				8 Colors Add'l Available
Available On	Aluminum, Galvalume, MagnaGuard				Aluminum, Galvalume	Galvalume				Aluminum, Galvalume[4]

[3] Specular Gloss 85°: 15-30. [4] Coastalume™.

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	ASTM D4214
	Color Change	ASTM D2244
	Erosion Resistance	ASTM D662
	Film Integrity	ASTM G7

KEYSTONE CERTIFICATIONS, INC. · TESTED TO PERFORM FPA FLORIDA PRODUCT APPROVED · TESTED TO PERFORM HVHZ HIGH VELOCITY HURRICANE ZONE FLORIDA PRODUCT APPROVED · MIAMI-DADE COUNTY APPROVED · CLASSIFIED UL

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

LEED
Up to 2 Credits Available
HEAT ISLAND REDUCTION†

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.

MATERIAL WARRANTIES

Metals

UP TO 50 YEAR WARRANTY† Including Oceanfront

- ▶ **GALVALUME®**
  AZ60 (Coastalume™), AZ55 (Acrylic-Coated), & AZ50 (Painted)
  Up to 25 years limited warranty† against rupture, structural failure or perforation from corrosion caused by exposure to normal atmospheric conditions.
- ▶ **ZM150 MAGNAGUARD™ (Painted)**
  Up to 25 years limited warranty† against rupture, structural failure or perforation from corrosion caused by exposure to normal atmospheric conditions.
- ▶ **ALUMINUM (Painted)**
  Up to 25 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®, WEATHER XL™, & ILLUMIPON™**
  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 WARRANTIES

Up to 25 years limited warranty† against water leaks. Available on commercial, industrial and government projects to certified installers including No Dollar Limit, Limited Dollar Value, and Limited to Installed Contract Value coverages.

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USS

SHERWIN-WILLIAMS Coil Coatings

DuPont™ Tedlar® PVF Film

KYNAR500® BY ARKEMA

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