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TECHNICAL SPECIFICATIONS

Architectural Metal Coil and Flats

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)**
Aluminum/zinc coated carbon steel
- ▶ **GALVALUME® AZ50 (PAINTED)**
Aluminum/zinc coated carbon steel
- ▶ **MAGNAGUARD™ ZM150 (PAINTED)**
Aluminum/zinc/magnesium 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.

Protective Film:

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



SHERWIN-WILLIAMS.
Coil Coatings

DuPont™
Tedlar® PVF Film

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"	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	1-Layer
	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	0.2-0.3 mils 0.7-0.8 mils	0.9-1.1 mils
Primer/Backer	0.2-0.3 mils 0.3-0.4 mils	0.4-0.5 mils 0.3-0.4 mils	0.2-0.3 mils 0.3 mils	1.5 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*

*Specular Gloss 85°: 15-30. *Tedlar 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	ASTM D4214
	Color Change	ASTM D2244
	Erosion Resistance	ASTM D662
	Film Integrity	ASTM G7



SUSTAINABILITY

Our metal products 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.
- ▶ Metal Alliance 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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TDS2 Rev 12/20

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