



# GALVALUME SPECIFICATIONS

## SUBSTRATE, PAINT FINISH, & APPROVED PRODUCT APPLICATIONS

Specifications include these product lines: ACM & Norandex Brand Gutter Coil, Rainware Accessories, and Roofing Edge Metals.

### TECHNICAL INFORMATION GALVALUME SUBSTRATE

Galvalume® is the registered trade name for a patented sheet steel product having a coating of corrosion resistant Aluminum (55%) – Zinc (45%) alloy applied by a continuous hot dipping process (.8 mil thickness per each side). The alloy coating of Aluminum and Zinc provides an optimum balance between:

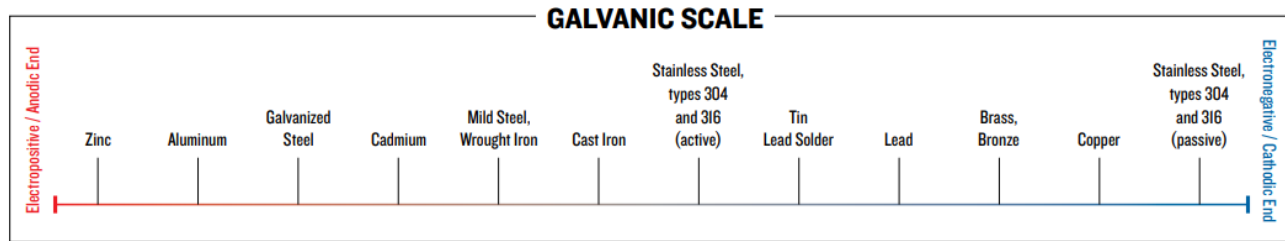
1. Long term general corrosion resistance of Aluminum
2. Galvanic protection of zinc at scratches and cut edges
3. The combined protection is 2 – 4 times more than G90 Galvanized Steel.

Product – Hot Dipped Galvalume All thickness are for bare metal. Hardness 50-65 HRB	Minimum Material Thickness	Thickness Tolerance	Tensile Strength-ksi		Minimum Elongation (2" Minimum Sample)
			Ultimate	Yield	
Edge Metals 26 Ga Mill Acrylic and Painted	.017	+.0015 -.002	50.0 – 65.0	38.0 - 53.0	20 - 36%
Rainware 26 Ga Mill Acrylic and Painted	.017	+.003 -.000	55.0 – 65.0	38.0 – 53.0	20 – 36%

#### Recycled Content

1. ACM Galvalume products are made from minimum 50% recycled postconsumer content.
2. ACM Galvalume products are 100% recyclable.

**Substrate Considerations:** Care should be taken to avoid contact of any Galvalume materials with any corrosive materials during the installation, including, but not limited to: concrete, stucco, pre-treated lumber, cedar shake shingles, corrosive chemicals, fiber cement products, masonry cement, roofing materials made of metallic granules of dissimilar metals (Copper, Zinc, Aluminum, etc.) salt, and dissimilar metals. Electropositive (anodic) materials are more likely to corrode in contact with dissimilar metals in the presence of an electrolyte such as rainwater. The farther apart the metals are from each other on the Galvanic Scale (see below), the speed and the effect of the reaction will increase.



Animal confinement buildings can produce waste decomposition by-products, which can be extremely aggressive towards the Aluminum material, creating significant corrosion problems.

While Galvalume® is prized for its anti-corrosive properties, a small amount (up to 5% of surface area) of red rust dusting is very common after the initial installation. Red dusting is more common with mill finish products.

Galvalume will still be subject to Atmospheric Soil Accumulation (Tiger Striping and Mildew Staining) and requires periodic maintenance with mild soap and rinsing off with clear water.

## TECHNICAL INFORMATION – GALVALUME PAINT FINISH

### Quality of Match

1. Color Match not to exceed 1.5 ΔE units difference from the Sherwin Williams Color Standard upon the time of installation.
2. Colors exposed to the elements will fade over time.

### Paint Finish Application

1. Painting Pre-treatment: Metal shall be treated on both sides with zinc phosphate chemical conversion to ensure proper paint adhesion and resistance to corrosion.

### Available Finishes

1. Acrylic Mill Finish: Acrylume® products are designed to be roll formed without the need for vanishing oil or other lubricants. These finishes protect the home from smudging during the roll forming fabrication and installation.
2. Sherwin Williams POLYPREMIER™ Polyester Paint Finish

Coating System	Number of Coats	Primer	Color Coat	Total Topside DFT	Backer
<b>POLYPREMIER™ Paint Finish</b>	2 Coat	.15 -.25 mils	.7 - .8 mils	.65 – .8 mils	.2 - .3 mils
<b>Acrylume®</b>	1 Coat	N/A	N/A	.25 mil	N/A

## **APPROVED APPLICATIONS**

**Gutter Coil:** ACM gutter coil is designed for residential and light commercial applications. Gutter coil can be field formed to provide seamless gutter systems. Gutter coil shall be attached per contractor's direction and state / local building codes.

ACM gutter coil is not suitable for gutter protection dome cover systems or metal roofing.

Galvalume is not recommended for animal confinement applications.

**Rainware Accessories:** ACM rainware accessories are designed for residential and light commercial applications.

Galvalume is not recommended for animal confinement applications.

**Roofing Edge Metals:** ACM Roofing Edge Metals are designed for residential and light commercial applications. Roofing edge metals shall be attached per contractor's direction and state / local building codes.

For Cedar Shake roof applications, check with the manufacture for the correct substrate for roof flashing. Pressure chemically treated wooden shake shingles could cause staining on the surface of the edge metal and cut ends.